CIGARETTE INFORMATION REPORT

PHILIP MORRIS USA RESEARCH AND DEVELOPMENT

JULY, 1985

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C. I. REPORT

JULY 31, 1985

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ALPHABETICAL INDEX OF BRANDS

BRAND	SIZE	PAGE NO.*	COM-PANY**
Alpine	K-FM	21	PM
Barclay	K-F	9	BW
Barclay Men.	K-FM	17	BW
Barclay (Box)	L-F	6	BW
Barclay	100	23	BW
Barclay Men.	100M	31	BW
Belair	K-FM	19	BW
Belair	100M	33	BW
Benson & Hedges (Box)	R-F	46	PM
Benson & Hedges (Box)	K-F	46	PM
Benson & Hedges	100	28	PM
Benson & Hedges Men.	100M	36	PM
Benson & Hedges (Box)	100	46	PM
Benson & Hedges Men. (Box)	100M	48	PM
Benson & Hedges Lights	100	25	PM
Benson & Hedges Lights Men.	100M	34	PM
B & H DeLuxe U.L. (Box)	100	23	PM
B & H DeLuxe U.L. Men. (Box)	100M	31	PM
B & H Multifilter	K-FC	40	PM
B & H Multifilter Men.	K-FM	20	PM
Bright	K-FM	18	R
Bright	100M	32	R
Bull Durham	K-F	46	A
Cambridge	100	22	PM
Cambridge (Box)	K-F	6	PM
Cambridge	K-F	7	PM
Camel (Box)	L-F	46	R
Camel	R-NF	43	R
Camel	K-F	14	R
Camel Lights (Box)	LF	42	R
Camel Lights	K-F	11	R
Camel Lights	100	25	R
Carlton	K-F	7	A
Carlton Men.	K-FM	16	A
Carlton (Box)	K-F	6	A
Carlton	100	23	A
Carlton (Box)	100	22	A
Carlton Men.	100M	48	A
Carlton Slims Deluxe (Box)	100	46	A
Carlton Slims Deluxe Men.(Box)	100M	48	A
Carlton	120	29	A
Carlton Men.	120M	37	A
Century	K-F	XIX	R
Century Lights	K-F	XIX	R
Century	100	XIX	R
Century Lights	100	XIX	R
Chesterfield	R-NF	48	LG
Chesterfield King	K-NF	43	LG
Doral Lights	K-F	13	R
Doral Lights	K-FM	20	R
Doral Lights	100	26	R
Doral Lights	100M	35	R
English Ovals (Box)	R-NF	48	PM
English Ovals (Box)	K-NF	48	PM
Eve Slim Lights (Box)	100	46	LG
Eve Slim Lights Men. (Box)	100M	48	LG
Eve Lights (Box)	120	46	LG
Eve Lights Men. (Box)	120M	48	LG
Galaxy	K-FC	46	PM
Half & Half	K-F	46	A
Hi-Lite (Box)	100	46	PM
H. Tareyton	K-NF	48	A
Iceberg 100's	100M	48	A
Kent (Box)	L-F	42	LO
Kent	K-F	14	LO
Kent III	K-F	7	LO
Kent	100	27	LO
Kent Men.	100M	48	LO
Kent III	100	22	LO
Kent III (Box)	100	46	LO
Kent Golden Lights	K-F	10	LO
Kent Golden Lights Men.	K-FM	18	LO
Kent Golden Lights	100	24	LO
Kent Golden Lights Men.	100M	32	LO
Kool	R-NFM	48	BW
Kool (Box)	L-FM	48	BW
Kool	K-FM	21	BW
Kool Lights	K-FM	19	BW
Kool Milds	K-FM	20	BW
Kool Ultra	K-FM	17	BW
Kool	100M	35	BW
Kool Lights	100M	34	BW
Kool Milds	100M	48	BW
Kool Ultra	100M	31	BW
Lark	K-FC	40	LG
Lark	100C	41	LG
Lark Lights	K-FC	40	LG
Lark Lights	100C	41	LG
L & M (Box)	L-F	46	LG
L & M	K-F	13	LG
L & M	100	26	LG
Long Johns	120	46	A
Lucky Strike	R-NF	43	A
Lucky Strike	K-F	11	A
Lucky Strike (Box)	K-F	13	A
Lucky Strike Lights	K-F	46	A
Lucky Strike	100	46	A
Lucky Strike Lights	100	46	A
Marlboro (Box)	L-F	42	PM
Marlboro	K-F	15	PM
Marlboro 25's	K-F	XVIII	PM
Marlboro Lights	K-F	12	PM
Marlboro Lights 25's	K-F	XVIII	PM
Marlboro Lights (Box)	K-F	12	PM
Marlboro Lights	100	26	PM
Marlboro Lights (Box)	100	26	PM
Marlboro Men.	K-FM	21	PM
Marlboro	100	28	PM
Marlboro (Box)	100	46	PM
Max	120	46	LO
Max Men.	120M	48	LO
Merit (Box)	K-F	10	PM
Merit	K-F	10	PM
Merit Ultra Lights	K-F	8	PM
Merit Men.	K-FM	18	PM
Merit Ultra Lights Men.	K-FM	16	PM
Merit	100	24	PM
Merit Ultra Lights	100	22	PM
Merit Men.	100M	33	PM
Merit Ultra Lights Men.	100M	30	PM
Montclair	K-FM	48	A
More	120	29	R
More Men.	120M	37	R
More Lights (Box)	100	38	R

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ALPHABETICAL INDEX OF BRANDS (cont.)

BRAND	SIZE	PAGE NO.*	COM-PANY**
More Lights Men. (Box)	100M	39	R
Newport (Box)	L-FM	48	LO
Newport	K-FM	21	LO
Newport	100M	36	LO
Newport Lights	K-FM	18	LO
Newport Lights (Box)	L-FM	48	LO
Newport Lights	100M	32	LO
Now (Box)	L-F	6	R
Now	K-F	7	R
Now Men.	K-FM	16	R
Now	100	22	R
Now Men.	100M	30	R
Old Gold	K-NF	48	LO
Old Gold	K-F	15	LO
Old Gold Lights	K-F	46	LO
Old Gold	100	46	LO
Pall Mall	K-F	46	A
Pall Mall Extra Light	K-F	46	A
Pall Mall Lights	100	46	A
Pall Mall Lights Men.	100M	48	A
Pall Mall	K-NF	43	A
Pall Mall	100	27	A
Parliament Lights (Box)	L-F	42	PM
Parliament Lights	K-F	11	PM
Parliament Lights	100C	41	PM
Philip Morris	R-NF	43	PM
P.M. Commander	K-NF	43	PM
P.M. Inter. (Box)	100	46	PM
P.M. Inter. Men. (Box)	100M	48	PM
Players (Box)	R-NF	48	PM
Players (Box)	K-F	13	PM
Players Men. (Box)	K-FM	20	PM
Players (Box)	100	27	PM
Players Men. (Box)	100M	35	PM
Raleigh	K-NF	48	BW
Raleigh	K-F	14	BW
Raleigh Lights	K-F	12	BW
Raleigh Lights	100	25	BW
Raleigh	100	27	BW
Richland	K-F	XVIII	BW
Richland Menthol	K-FM	XVIII	BW
Salem	K-FM	20	R
Salem	100M	36	R
Salem Lights	K-FM	19	R
Salem Lights	100M	33	R
Salem Ultra Lights	K-FM	17	R
Salem Ultra Lights	100M	30	R
Salem Slim Lights (Box)	100M	39	R
Saratoga (Box)	120	29	PM
Saratoga Men. (Box)	120M	37	PM
Satin	100	24	LO
Satin Men.	100M	34	LO
Silva Thins	100	38	A
Silva Thins Men.	100M	39	A
Spring	100M	48	LO
St. Moritz	100	46	LG
St. Moritz Men.	100M	48	LG
Sterling Special Blend (Box)	100	26	R
Sterling Special Blend Men. (Box)	100M	35	R
Tall	120	46	A
Tall Men.	120M	48	A
Tareyton	K-FC	40	A
Tareyton	100C	41	A
Tareyton Lights	K-FC	40	A
Tareyton Long Lights	100C	41	A
Triumph	K-F	46	LO
Triumph Men.	K-FM	48	LO
Triumph	100	46	LO
Triumph Men.	100M	48	LO
True	K-F	8	LO
True	100	24	LO
True Men.	K-FM	17	LO
True Men.	100M	32	LO
Vantage	K-F	10	R
Vantage Men.	K-FM	19	R
Vantage	100	24	R
Vantage Men.	100M	33	R
Vantage Ultra Lights	K-F	9	R
Vantage Ultra Lights Men.	KFM	16	R
Vantage Ultra Lights	100	23	R
Vantage Ultra Lights Men.	100M	30	R
Viceroy	K-F	14	BW
Viceroy Lights	K-F	12	BW
Viceroy Lights	100	25	BW
Viceroy	100	27	BW
Virginia Slims	100	38	PM
Virginia Slims Men.	100M	39	PM
Va. Slims Lights (Box)	100	38	PM
Va. Slims Lights Men. (Box)	100M	39	PM
Winston (Box)	L-F	42	R
Winston	K-F	15	R
Winston Lights	K-F	11	R
Winston Ultra Lights	K-F	8	R
Winston Lights	100	25	R
Winston	100	28	R
Winston Ultra Lights	100	23	R
Winston International	95	46	R

*Location of complete analytical data in report.

**Key: A = American; BW = Brown & Williamson; LG = Liggett Group; LO = Lorillard; PM = Philip Morris; R = Reynolds

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NEW BRANDS

PHILIP MORRIS
CONCORD 85 (PLAIN & MENTHOL)

Philip Morris will test market Concord 85 (plain & menthol) cigarettes beginning August 5. This cigarette has a unique "Flavor Control" filter with mild and rich settings. The filter can be adjusted by the smoker, yielding tar deliveries from 5 mg on the mild setting to 15 mg on the rich setting.

	Concord 85		Concord Menthol 85	
	Mild	Rich	Mild	Rich
Butt Length, mm	35		35	
FTC Tar, mg/cigt.	5.2	14.7	5.3	15.0
Nicotine, mg/cigt.	0.43	0.96	0.43	0.97
Puffs/cigt.	10.1	8.3	10.0	8.5
Filtration Eff., %	51	49	51	49
CO, mg/cigt.	3.6	14.0	3.6	13.8
Smoke Menthol, mg/cigt.	-	-	0.38	0.82
Total RTD, mm of H_2O	68	129	66	126
Filter RTD, mm of H_2O	76	77	76	76
Filter Ventilation, %	72	8	74	10
Filler Rod TPM, mg/cigt.	34.3		36.6	
Cigarette				
Static Burn. Time, min.	10.4		10.0	
Length, mm	84.2		84.1	
Circumference, mm	24.9		25.0	
Paper				
Components				
Type	Cit.		Cit.	
Percent	0.5		0.4	
Porosity, sec.	14		12	
Filter				
Length, mm	27.3		27.1	
Weight, g	0.19		0.19	
Fiber denier/shape	4.5/Y		4.5/Y	
Tipping paper length, mm	32		32	
Type	Hauni Laser		Hauni Laser	
Filler				
Total alkaloids, % (DWB)	1.93		1.86	
Total red. sugars, % (DWB)	7.0		7.0	
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.686		0.700	
Rod Density, g/cc	0.243		0.248	
Reconstituted Tob., %	23		23	
E.S., %	2		2	
Expanded Tobacco, %	12		12	
Menthol, mg/cigt.				
Filler	-		2.9	
Filter	-		1.6	

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NEW BRANDS

PHILIP MORRIS
CONCORD 85 (PLAIN & MENTHOL)

Philip Morris will test market Concord 85 (plain & menthol) cigarettes beginning August 5. This cigarette has a unique "Flavor Control" filter with mild and rich settings. The filter can be adjusted by the smoker, yielding tar deliveries from 5 mg on the mild setting to 15 mg on the rich setting.

	Concord 85		Concord Menthol 85	
	Mild	Rich	Mild	Rich
Butt Length, mm	35		35	
FTC Tar, mg/cigt.	5.2	14.7	5.3	15.0
Nicotine, mg/cigt.	0.43	0.96	0.43	0.97
Puffs/cigt.	10.1	8.3	10.0	8.5
Filtration Eff., %	51	49	51	49
CO, mg/cigt.	3.6	14.0	3.6	13.8
Smoke Menthol, mg/cigt.	-	-	0.38	0.82
Total RTD, mm of H_2O	68	129	66	126
Filter RTD, mm of H_2O	76	77	76	76
Filter Ventilation, %	72	8	74	10
Filler Rod TPM, mg/cigt.	34.3		36.6	
Cigarette				
Static Burn. Time, min.	10.4		10.0	
Length, mm	84.2		84.1	
Circumference, mm	24.9		25.0	
Paper				
Components				
Type	Cit.		Cit.	
Percent	0.5		0.4	
Porosity, sec.	14		12	
Filter				
Length, mm	27.3		27.1	
Weight, g	0.19		0.19	
Fiber denier/shape	4.5/Y		4.5/Y	
Tipping paper length, mm	32		32	
Type	Hauni Laser		Hauni Laser	
Filler				
Total alkaloids, % (DWB)	1.93		1.86	
Total red. sugars, % (DWB)	7.0		7.0	
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.686		0.700	
Rod Density, g/cc	0.243		0.248	
Reconstituted Tob., %	23		23	
E.S., %	2		2	
Expanded Tobacco, %	12		12	
Menthol, mg/cigt.				
Filler	-		2.9	
Filter	-		1.6	

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C.I. HIGHLIGHTS
JULY, 1985

NEW BRANDS

PHILIP MORRIS

CONCORD 85 (PLAIN & MENTHOL)

Philip Morris will test market Concord 85 (plain & menthol) cigarettes beginning August 5. This cigarette has a unique "Flavor Control" filter with mild and rich settings. The filter can be adjusted by the smoker, yielding tar deliveries from 5 mg on the mild setting to 15 mg on the rich setting. The plain version will be test marketed in Little Rock, Arkansas and Spokane, Washington; the menthol version will be test marketed in Fort Wayne, Indiana and Birmingham, Alabama.

LORILLARD

NEWPORT 85 & 100 25's

Lorillard is test marketing Newport 85 and 100 in 25 cigarettes per pack in Pennsylvania. The 85 mm cigarette delivers 16 mg tar, 1.2 mg nicotine and 0.4 mg smoke menthol; the 100 mm cigarette delivers 18 mg tar, 1.3 mg nicotine and 0.5 mg smoke menthol. These cigarettes are packed in an 8-9-8 configuration in the pack and the carton contains eight packs for a total of 200 cigarettes. These products are similar to Newport 85 and 100 (20's) cigarettes currently on the market.

KENT GOLDEN LIGHTS 80 & 100 (BOX)

Lorillard is distributing Kent Golden Lights 80 (Box) and 100 (Box) cigarettes nationally. The 80 (Box) cigarette delivers 9 mg tar and 0.7 mg nicotine; the 100 (Box) cigarette delivers 9 mg tar and 0.8 mg nicotine. The 100 (Box) cigarette is similar to Kent Golden Lights 100 (Soft Pack) cigarettes currently on the market. This is the first Kent Golden Lights 80 mm product and is similar to Kent Golden Lights 85 (Soft Pack) cigarettes currently on the market.

AMERICAN TOBACCO CO.

CARLTON MENTHOL 100 (BOX)

American Tobacco Co. is distributing Carlton Menthol 100 (Box) cigarettes nationally. This cigarette delivers 1 mg tar, 0.1 mg nicotine and 0.2 mg smoke menthol and is similar to Carlton 100 (Box) cigarettes currently on the market.

GENERIC BRANDS

C/M PRODUCTS

MAJOR FULL FLAVOR 80 (BOX)
MAJOR ULTRA LIGHTS 85 & 100
MAJOR LIGHTS 85 & 100 (PLAIN & MENTHOL)
MAJOR FULL FLAVOR 85 & 100

C/M Products of Sacramento, California is distributing a generic cigarette, Major, in nine versions: Major Full Flavor 80 (Box), Major Ultra Lights 85 & 100, Major Lights 85 & 100 (plain and menthol), and Major Full Flavor 85 & 100. These cigarettes are manufactured by Brown & Williamson. The Full Flavor 80 (Box) cigarettes are manufactured in Virginia; the other cigarettes are manufactured in Georgia. The Ultra Lights deliver 6 mg tar; the Lights deliver approximately 10 mg tar and the Full Flavor cigarettes deliver approximately 17 mg tar.

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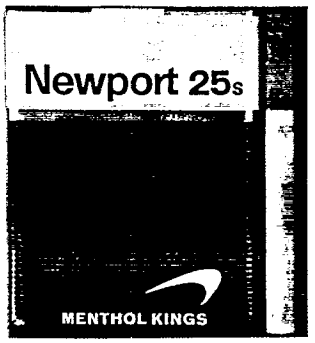
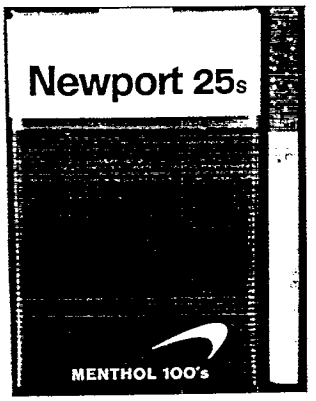
LORILLARD

NEWPORT 85 & 100 25's

Lorillard is test marketing Newport 85 and 100 in 25 cigarettes per pack in Pennsylvania. These cigarettes are packed in an 8-9-8 configuration in the pack and the carton contains eight packs for a total of 200 cigarettes. These products are similar to Newport 85 and 100 cigarettes currently on the market.





	NEWPORT			
	85 25's	85 20's	100 25's	100 20's
Smoke				
Butt Length, mm	28	28	35	35
FTC Tar, mg/cigt.	15.7	16.5	18.2	18.7
Nicotine, mg/cigt.	1.25	1.25	1.35	1.44
Puffs/cigt.	8.2	8.0	8.9	9.1
Filtration Eff., %	47	46	45	43
Filler Rod TPM, mg/cigt.	30.0	32.4	27.0	31.0
CO, mg/cigt.	16.8	17.7	19.6	19.3
Cigarette				
Total RTD, mm of H_2O	116	119	113	112
Static Burn. Time, min.	7.8	7.6	6.9	7.3
Length, mm	84.3	84.2	99.0	98.8
Circumference, mm	25.2	25.1	25.0	24.9
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.8	0.7	0.8	0.7
Porosity, sec.	30	29	29	31
Filter				
RTD, mm of H_2O	65	63	53	52
Length, mm	21.0	21.1	27.1	26.9
Weight, g	0.12	0.12	0.16	0.16
Fiber denier/shape	2.5/Y	3.0/Y	4.8/Y	4.6/Y
Tipping paper length, mm	25	25	32	32
Filler				
Total alkaloids, % (DWB)	2.19	2.18	2.02	2.15
Total red. sugars, % (DWB)	9.2	9.1	8.8	9.4
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.726	0.719	0.815	0.807
Rod Density, g/cc	0.227	0.230	0.228	0.229
Reconstituted Tob., %	20	20	20	20
E.S., %	None	None	None	None
Expanded Tobacco, %	12	12	12	12
Menthol, mg/cigt.				
Smoke	0.44	0.43	0.47	0.51
Filler	1.9	1.8	2.0	2.0
Filter	0.5	0.6	0.6	0.8

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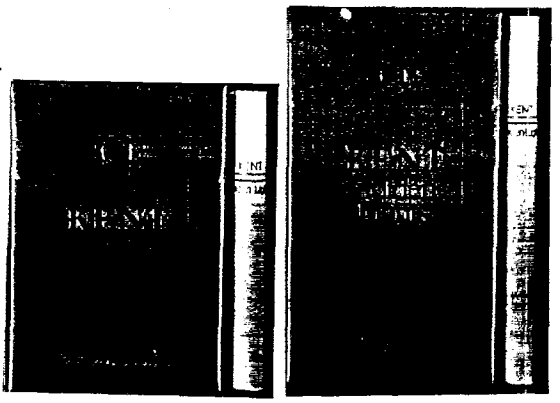
LORILLARD

KENT GOLDEN LIGHTS 80 (BOX) & 100 (BOX)

Lorillard is distributing Kent Golden Lights 80 (Box) and 100 (Box) cigarettes. The 100 (Box) cigarette is similar to Kent Golden Lights 100 (Soft Pack) cigarettes currently on the market. This is the first Kent Golden Lights 80 mm product and is similar to Kent Golden Lights 85 (Soft Pack) cigarettes currently on the market.



	Kent Golden Lights			
	80 (Box)	85	100 (Box)	100
Smoke				
Butt Length, mm	33	35	38	38
FTC Tar, mg/cigt.	8.6	7.9	9.2	8.8
Nicotine, mg/cigt.	0.73	0.72	0.83	0.84
Puffs/cigt.	6.8	7.4	9.3	9.3
Filtration Eff., %	49	51	54	54
Filler Rod TPM, mg/cigt.	30.7	28.6	30.9	28.5
CO, mg/cigt.	9.8	8.7	9.4	8.7
Cigarette				
Total RTD, mm of H_2O	107	100	104	102
Static Burn. Time, min.	7.1	6.9	7.4	6.5
Length, mm	79.9	83.7	98.7	98.6
Circumference, mm	24.8	24.8	25.0	24.9
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	2.2	1.6	1.9	1.8
Porosity, sec.	19	18	20	18
Filter				
RTD, mm of H_2O	86	81	80	79
Length, mm	25.0	25.0	26.9	26.9
Weight, g	0.14	0.15	0.15	0.15
Fiber denier/shape	2.5/Y	3.1/Y	2.6/Y	3.1/Y
Tipping paper length, mm	30	32	35	35
Ventilation, %	28	38	42	41
Type	Porous	Porous	Porous	Porous
Filler				
Total alkaloids, % (DWB)	2.16	2.14	2.16	2.19
Total red. sugars, % (DWB)	8.9	9.5	9.4	8.9
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.614	0.669	0.827	0.808
Rod Density, g/cc	0.228	0.232	0.232	0.230
Reconstituted Tob., %	22	22	22	22
E.S., %	None	None	None	None
Expanded Tobacco, %	12	12	12	12

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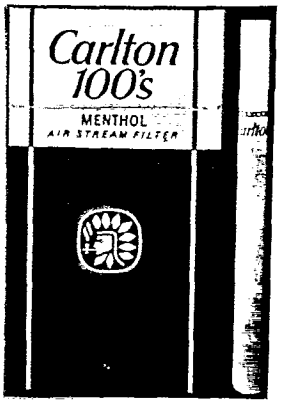
AMERICAN TOBACCO CO.

CARLTON MENTHOL 100 (BOX)



American Tobacco Co. is distributing Carlton Menthol 100 (Box) cigarettes nationally. This brand is similar to Carlton 100 (Box) cigarettes currently on the market.

	Carlton Menthol 100 (Box)	Carlton 100 (Box)
Smoke		
Butt Length, mm	38	38
FTC Tar, mg/cigt.	1.3	1.1
Nicotine, mg/cigt.	0.13	0.14
Puffs/cigt.	7.8	8.0
Filtration Eff., %	74	70
Filler Rod TPM, mg/cigt.	22.5	22.6
CO, mg/cigt.	0.4	0.8
Cigarette		
Total RTD, mm of H_2O	87	83
Static Burn. Time, min.	5.1	5.3
Length, mm	98.5	98.5
Circumference, mm	24.5	24.4
Paper		
Components		
Type	Cit.	Cit.
Percent	0.7	0.9
Porosity, sec.	12	11
Filter		
RTD, mm of H_2O	132	125
Length, mm	27.0	27.1
Weight, g	0.20	0.19
Fiber denier/shape	2.8/I	3.2/I
Tipping paper length, mm	35	35
Ventilation, %	79	81
Type/Rows	L/2	L/2
Filler		
Total alkaloids, % (DWB)	2.19	2.17
Total red. sugars, % (DWB)	7.4	7.2
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.602	0.622
Rod Density, g/cc	0.176	0.183
Reconstituted Tob., %	17	17
E.S., %	None	None
Expanded Tobacco, %	54	54
Menthol, mg/cigt.		
Smoke	0.16	-
Filler	6.4	-
Filter	2.2	-

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

GENERIC PRODUCTS CORPORATION

GPC 85 (Non-Filter)

Generic Products Corporation is distributing GPC 85 (NF) cigarettes in Richmond, Virginia. These cigarettes are manufactured by the Liggett Group and are similar to the Chesterfield 85 (NF) cigarettes on the market.

	GPC 85 (NF)	Chesterfield 85 (NF)
Smoke		
Butt Length, mm	23	23
FTC Tar, mg/cigt.	21.7	21.3
Nicotine, mg/cigt.	1.38	1.43
Puffs/cigt.	9.7	9.0
Filler Rod TPM, mg/cigt.	25.6	28.9
CO, mg/cigt.	14.9	14.4
Cigarette		
Total RTD, mm of H_2O	87	88
Static Burn. Time, min.	7.9	7.4
Length, mm	84.8	84.9
Circumference, mm	24.8	24.8
Paper		
Components		
Type	Cit.	Cit.
Percent	0.4	0.8
Porosity, sec.	13	12
Filler		
Total alkaloids, % (DWB)	1.96	1.94
Total red. sugars, % (DWB)	12.4	12.0
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.972	0.981
Rod Density, g/cc	0.234	0.234
Reconstituted Tob., %	8	8
E.S., %	6	6
Expanded Tobacco, %	19	19

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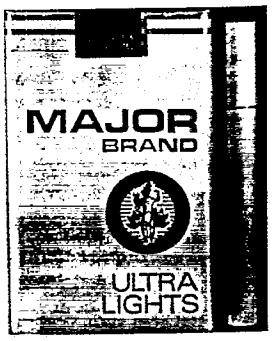
X

C/M PRODUCTS

MAJOR ULTRA LIGHTS 85 & 100



Major Ultra Lights 85 & 100 cigarettes, manufactured by Brown & Williamson, are being distributed in Utah by C/M Products of Sacramento, California. These cigarettes are manufactured in Georgia.

	Major Ultra Lights 85	Major Ultra Lights 100
Smoke		
Butt Length, mm	35	39
FTC Tar, mg/cigt.	5.6	5.8
Nicotine, mg/cigt.	0.50	0.44
Puffs/cigt.	8.1	10.0
Filtration Eff., %	63	61
Filler Rod TPM, mg/cigt.	30.9	32.2
CO, mg/cigt.	5.1	5.2
Cigarette		
Total RTD, mm of H_2O	117	110
Static Burn. Time, min.	8.4	7.8
Length, mm	83.8	99.0
Circumference, mm	24.8	25.0
Paper		
Components		
Type	Cit.	Cit.
Percent	0.2	0.2
Porosity, sec.	13	12
Filter		
RTD, mm of H_2O	120	117
Length, mm	27.0	27.0
Weight, g	0.17	0.17
Fiber denier/shape	2.5/Y	2.5/Y
Tipping paper length, mm	32	36
Ventilation, %	46	52
Type/Rows	MP/3	MP/3
Filler		
Total alkaloids, % (DWB)	2.09	1.61
Total red. sugars, % (DWB)	9.2	9.7
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.626	0.835
Rod Density, g/cc	0.225	0.234
Reconstituted Tob., %	12	12
E.S., %	9	4
Expanded Tobacco, %	10	None

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C/M PRODUCTS

MAJOR LIGHTS 85 & 100

Major Lights 85 & 100 cigarettes, manufactured by Brown & Williamson, are being distributed in Utah by C/M Products of Sacremento, California. These cigarettes are manufactured in Georgia.

	Major Lights 85	Major Lights 100
Smoke		
Butt Length, mm	33	39
FTC Tar, mg/cigt.	9.8	11.1
Nicotine, mg/cigt.	0.77	0.71
Puffs/cigt.	7.8	9.0
Filtration Eff., %	55	58
Filler Rod TPM, mg/cigt.	30.1	30.9
CO, mg/cigt.	9.1	10.8
Cigarette		
Total RTD, mm of H_2O	121	128
Static Burn. Time, min.	7.9	7.3
Length, mm	84.0	98.5
Circumference, mm	24.9	24.8
Paper		
Components		
Type	Cit.	Cit.
Percent	0.1	0.1
Porosity, sec.	13	13
Filter		
RTD, mm of H_2O	91	96
Length, mm	24.9	26.8
Weight, g	0.15	0.16
Fiber denier/shape	2.5/Y	2.8/Y
Tipping paper length, mm	30	36
Ventilation, %	24	23
Type/Rows	MP/2	MP/1
Filler		
Total alkaloids, % (DWB)	2.12	1.59
Total red. sugars, % (DWB)	9.2	9.5
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.660	0.837
Rod Density, g/cc	0.227	0.238
Reconstituted Tob., %	12	12
E.S., %	9	4
Expanded Tobacco, %	10	None

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

XII

C/M PRODUCTS

MAJOR LIGHTS 85 & 100 (MENTHOL)

Major Lights Menthol 85 & 100 cigarettes, manufactured by Brown & Williamson, are being distributed in Utah by C/M Products of Sacramento, California. These cigarettes are manufactured in Georgia.

	Major Lights Menthol 85	Major Lights Menthol 100
Smoke		
Butt Length, mm	33	39
FTC Tar, mg/cigt.	10.7	8.8
Nicotine, mg/cigt.	0.84	0.68
Puffs/cigt.	7.3	8.2
Filtration Eff., %	50	52
Filler Rod TPM, mg/cigt.	30.1	27.7
CO, mg/cigt.	8.5	7.1
Cigarette		
Total RTD, mm of H_2O	103	106
Static Burn. Time, min.	7.4	6.6
Length, mm	83.6	98.3
Circumference, mm	25.0	24.9
Paper		
Components		
Type	Cit.	Cit.
Percent	0.1	0.2
Porosity, sec.	12	12
Filter		
RTD, mm of H_2O	76	81
Length, mm	24.8	27.0
Weight, g	0.13	0.16
Fiber denier/shape	2.8/Y	3.7/Y
Tipping paper length, mm	30	36
Ventilation, %	23	34
Type/Rows	MP/2	MP/2
Filler		
Total alkaloids, % (DWB)	2.14	1.88
Total red. sugars, % (DWB)	8.9	8.6
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.623	0.775
Rod Density, g/cc	0.213	0.219
Reconstituted Tob., %	12	12
E.S., %	9	9
Expanded Tobacco, %	10	10
Menthol, mg/cigt.		
Smoke	0.30	0.34
Filler	1.5	2.5
Filter	0.8	1.0

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C/M PRODUCTS

MAJOR FULL FLAVOR 80 (BOX)

MAJOR FULL FLAVOR 85 & 100

Major Full Flavor 80 (Box), 85 and 100 cigarettes, manufactured by Brown & Williamson, are being distributed in Utah by C/M Products of Sacramento, California. The Box product is manufactured in Virginia; the other products are manufactured in Georgia.

	Major Full Flavor 80 (Box)	Major Full Flavor 85	Major Full Flavor 100
Smoke			
Butt Length, mm	29	29	35
FTC Tar, mg/cigt.	15.6	16.7	17.8
Nicotine, mg/cigt.	1.04	1.19	1.05
Puffs/cigt.	7.2	7.8	9.3
Filtration Eff., %	41	41	50
Filler Rod TPM, mg/cigt.	30.7	32.1	32.6
CO, mg/cigt.	12.6	14.3	15.9
Cigarette			
Total RTD, mm of H_2O	101	108	130
Static Burn. Time, min.	7.4	7.9	7.6
Length, mm	79.9	83.4	98.9
Circumference, mm	24.9	24.9	24.8
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.1	0.2	0.1
Porosity, sec.	15	13	14
Filter			
RTD, mm of H_2O	54	51	70
Length, mm	21.0	21.0	26.9
Weight, g	0.12	0.12	0.16
Fiber denier/shape	3.7/Y	3.7/Y	3.7/Y
Tipping paper length, mm	26	26	32
Ventilation, %	None	None	None
Filler			
Total alkaloids, % (DWB)	2.03	2.03	1.64
Total red. sugars, % (DWB)	10.3	10.3	9.0
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.633	0.696	0.832
Rod Density, g/cc	0.218	0.226	0.237
Reconstituted Tob., %	12	12	12
E.S., %	9	9	4
Expanded Tobacco, %	10	10	None

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

BRAND MODIFICATIONS

BROWN & WILLIAMSON

BARCLAY 100

Brown & Williamson has decreased the amount of expanded tobacco and increased the amount of reconstituted material in the blend of Barclay 100 cigarettes. The tobacco weight and rod density were higher as a result of these changes. The Barclay 100 cigarette is now similar in blend to the Barclay 80 and 85 (plain) cigarettes. No changes were noted in smoke deliveries.

	Barclay 100	
	Previous	Present
Smoke		
Butt Length, mm	39	39
FTC Tar, mg/cigt.	3.2	2.9
Nicotine, mg/cigt.	0.29	0.28
Puffs/cigt.	9.6	10.2
CO, mg/cigt.	1.8	2.2
Cigarette		
Total RTD, mm of H_2O	27	27
Filter		
RTD, mm of H_2O	60	63
Filler		
Total alkaloids, % (DWB)	1.96	1.99
Total red. sugars, % (DWB)	8.1	8.2
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.749	0.854
Rod Density, g/cc	0.212	0.237
Reconstituted Tob., %	7	17
E.S., %	7	7
Expanded Tobacco, %	25	12

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

BROWN & WILLIAMSON

RALEIGH 85

Brown & Williamson has increased the amount of expanded tobacco in the blend of Raleigh 85 cigarettes. The tobacco weight was lower as a result of this change. No changes were noted in smoke deliveries.

	Raleigh 85	
	Previous	Present
Smoke		
Butt Length, mm	29	29
FTC Tar, mg/cigt.	15.4	15.5
Nicotine, mg/cigt.	0.99	1.00
Puffs/cigt.	7.6	7.6
CO, mg/cigt.	14.4	14.4
Cigarette		
Total RTD, mm of H_2O	116	116
Filter		
RTD, mm of H_2O	64	64
Filler		
Total alkaloids, % (DWB)	1.89	1.93
Total red. sugars, % (DWB)	8.2	9.3
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.734	0.716
Rod Density, g/cc	0.232	0.228
Reconstituted Tob., %	11	12
E.S., %	11	12
Expanded Tobacco, %	4	10

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

THE LIGGETT GROUP

LARK LIGHTS 85 & 100

The Liggett Group has increased the amount of expanded tobacco in the blend of Lark Lights 85 and 100 cigarettes. The tobacco weight and rod density were lower as a result of this change. No changes were noted in smoke deliveries.

	Lark Lights 85		Lark Lights 100	
	Prev.	Pres.	Prev.	Pres.
Smoke				
Butt Length, mm	33	33	38	38
FTC Tar, mg/cigt.	11.3	11.7	12.8	13.2
Nicotine, mg/cigt.	0.84	0.86	0.98	1.04
Puffs/cigt.	6.8	6.9	8.2	8.0
CO, mg/cigt.	12.7	12.2	13.5	13.9
Cigarette				
Total RTD, mm of H_2O	114	117	118	118
Filter				
RTD, mm of H_2O	67	68	68	68
Filler				
Total alkaloids, % (DWB)	1.90	1.97	1.94	1.99
Total red. sugars, % (DWB)	11.8	9.9	11.5	10.1
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.650	0.607	0.754	0.702
Rod Density, g/cc	0.222	0.208	0.226	0.208
Reconstituted Tob., %	14	12	14	12
E.S., %	7	6	7	6
Expanded Tobacco, %	17	23	17	23

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THE LIGGETT GROUP

LARK 85 & 100

The Liggett Group has increased the amount of expanded tobacco in the blend of Lark 85 and 100 cigarettes. The tobacco weight and rod density were lower as a result of this change. No changes were noted in smoke deliveries.

	Lark 85		Lark 100	
	Prev.	Pres.	Prev.	Pres.
Smoke				
Butt Length, mm	33	33	38	38
FTC Tar, mg/cigt.	12.8	12.6	14.0	14.3
Nicotine, mg/cigt.	0.92	0.92	1.03	1.04
Puffs/cigt.	7.0	6.6	8.3	8.3
CO, mg/cigt.	13.0	12.7	15.5	15.1
Cigarette				
Total RTD, mm of H_2O	120	127	132	135
Filter				
RTD, mm of H_2O	68	68	70	71
Filler				
Total alkaloids, % (DWB)	1.87	1.94	1.85	1.94
Total red. sugars, % (DWB)	11.7	10.4	11.8	10.9
Wt. of tobacco, g (Corrected to 12.5% O.V.)	0.647	0.607	0.761	0.702
Rod Density, g/cc	0.223	0.205	0.229	0.211
Reconstituted Tob., %	14	12	14	12
E.S., %	7	6	7	6
Expanded Tobacco, %	17	23	17	23

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BRAND INTRODUCTIONS

25 CIGARETTES PER PACK

These brands are in limited distribution and contain 25 cigarettes per pack. The data of these brands are not included in the tables of this report.

	PHILIP MORRIS		BROWN & WILLIAMSON	
	Marlboro 85	Marlboro Lights 85	Richland 85	Richland Menthol 85
[1]Sales	0.73	0.45	----	----
Smoke				
Butt Length, mm	28	34	29	29
FTC Tar, mg/cigt.	16.4	11.5	15.4	16.2
Nicotine, mg/cigt.	1.13	0.77	1.13	1.13
Puffs/cigt.	9.0	8.4	8.8	7.3
Filtration Eff., %	46	56	50	41
Filler Rod TPM, mg/cigt.	33.5	33.4	29.5	28.6
CO, mg/cigt.	14.8	12.3	14.6	14.1
Cigarette				
Total RTD, mm of H_2O	117	125	124	102
Static Burn. Time, min.	7.9	7.9	7.4	6.7
Length, mm	84.3	84.2	83.8	83.8
Circumference, mm	24.9	25.0	25.0	25.0
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.6	0.5	0.3	0.2
Porosity, sec.	17	16	18	16
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	73	100	80	52
Length, mm	21.0	27.2	21.0	21.1
Weight, g	0.13	0.16	0.12	0.12
Fiber denier/shape	3.3/Y	3.0/Y	2.6/Y	3.6/Y
Tipping paper length, mm	25	31	26	26
Ventilation, %	10	20	11	None
Type/Rows	ESP	Laser/2	ESP	-
Filler				
Total alkaloids, % (DWB)	1.93	1.88	1.96	2.12
Total red. sugars, % (DWB)	8.1	7.6	8.5	8.1
Reconstituted Tob., %	21	21	13	13
Expanded Stems, %	2	2	8	8
Expanded Tob., %	12	12	10	10
Wt. of tob., g (Corrected to 12.5% O.V.)	0.754	0.691	0.742	0.705
Rod Density, g/cc	0.242	0.246	0.237	0.228
Menthol, mg/cigt.				
Smoke	-	-	-	0.57
Filler	-	-	-	2.2
Filter	-	-	-	0.6

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

BRAND INTRODUCTIONS

25 CIGARETTES PER PACK

R. J. REYNOLDS

Century 85	Century Lights 85	Century 100	Century Lights 100	
0.18	0.18	0.25	0.31	[1]Sales
				Smoke
30	34	38	38	Butt Length, mm
14.1	8.9	15.9	11.2	FTC Tar, mg/cigt.
1.04	0.68	1.16	0.85	Nicotine, mg/cigt.
8.3	8.0	10.1	9.7	Puffs/cigt.
50	58	54	52	Filtration Eff., %
34.3	31.9	36.6	30.1	Filler Rod TPM, mg/cigt.
15.8	10.6	17.4	12.4	CO, mg/cigt
				Cigarette
149	153	146	127	Total RTD, mm of H_2O
8.7	8.0	8.7	7.2	Static Burn. Time, min.
84.0	83.8	98.9	98.8	Length, mm
24.0	24.2	24.1	24.1	Circumference, mm
				Paper
				Components
Phos.	Cit.	Phos.	Cit.	Type
0.2	0.5	0.2	0.3	Percent
21	20	20	21	Porosity, sec.
				Filter
CA	CA	CA	CA	Type
92	125	99	99	RTD, mm of H_2O
21.3	27.1	31.0	30.9	Length, mm
0.14	0.16	0.18	0.18	Weight, g
2.6/Y	2.5/Y	3.8/Y	3.7/Y	Fiber denier/shape
27	31	35	35	Tipping paper length, mm
15	25	14	31	Ventilation, %
ESP	ESP	ESP	ESP	Type/Rows
				Filler
1.86	1.83	1.81	1.83	Total alkaloids, % (DWB)
8.5	7.5	7.6	9.7	Total red. sugars, % (DWB)
21	21	20	18	Reconstituted Tob., %
None	None	None	None	Expanded Stems, %
29	16	13	23	Expanded Tob., %
0.650	0.649	0.767	0.745	Wt. of tob., g (Corrected to 12.5% O.V.)
0.232	0.246	0.244	0.238	Rod Density, g/cc

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

SMOKING MODIFICATIONS FOR BARCLAY-TYPE FILTER CIGARETTES

The FTC has determined that its present testing methodology does not accurately measure Brown & Williamson's Barclay cigarette smoke deliveries. The FTC has also found there is a significant likelihood the same problem exists with respect to Kool Ultra 85 and 100. These brands were tested using both the standard holder and the modified holder. All smoke data are higher for these cigarettes when using the modified holder because this holder reduces the amount of ventilation through the cigarette. No other brands show the change in smoke deliveries when using the modified holder.

	Barclay 80 (Box)		Barclay 85		Barclay Menthol 85	
	Standard	Modified	Standard	Modified	Standard	Modified
Butt Length, mm	35	35	35	35	35	35
FTC Tar, mg/cigt.	1.1	5.5	0.8	6.0	1.6	5.0
Nicotine, mg/cigt.	0.11	0.45	0.08	0.46	0.16	0.43
Puffs/cigt.	8.2	7.1	8.9	8.1	8.0	7.4
CO, mg/cigt.	1.4	4.7	0.7	4.6	1.0	4.9

	Barclay 100		Barclay Menthol 100	
	Standard	Modified	Standard	Modified
Butt Length, mm	39	39	39	39
FTC Tar, mg/cigt.	2.9	7.6	3.5	8.2
Nicotine, mg/cigt.	0.28	0.61	0.30	0.64
Puffs/cigt.	10.2	9.2	9.5	8.6
CO, mg/cigt.	2.2	4.8	1.9	6.1

	Kool Ultra 85		Kool Ultra 100	
	Standard	Modified	Standard	Modified
Butt Length, mm	35	35	39	39
FTC Tar, mg/cigt.	2.4	7.9	5.3	8.4
Nicotine, mg/cigt.	0.22	0.66	0.53	0.74
Puffs/cigt.	7.8	7.0	8.8	8.6
CO, mg/cigt.	1.5	6.5	3.1	6.4

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

CIGARETTE BRANDS RANKED ACCORDING TO SIZE AND SALES[1]

PHILIP MORRIS DATA

	SALES	FTC TAR, MG/CIGT.	NICOTINE, MG/CIGT.
120 MM FILTER PLAIN			
More	0.75	15.8	1.15
SARATOGA (BOX)	0.26	14.9	1.06
Carlton	0.30	7.7	0.70
120 MM FILTER MENTHOL			
More	0.64	15.6	1.17
Carlton	0.30	7.1	0.65
SARATOGA (BOX)	0.12	14.5	1.12
100 MM FILTER PLAIN			
Winston	2.43	16.2	1.02
MARLBORO	2.41	16.8	1.18
MARLBORO LIGHTS	2.30	11.2	0.80
Winston Lights	1.86	11.1	0.83
BENSON & HEDGES	1.39	16.4	1.18
Vantage	0.93	9.2	0.71
B & H LIGHTS	0.89	11.1	0.84
B & H DELUXE ULTRA LIGHTS (BOX)	0.89	6.3	0.48
Pall Mall	0.88	15.3	1.16
Carlton	0.75	5.9	0.50
MARLBORO LIGHTS (BOX)	0.68	11.2	0.87
Kent	0.64	13.7	1.13
Kent III	0.55	4.8	0.52
Vantage Ultra Lights	0.55	5.5	0.44
Kent Golden Lights	0.52	8.8	0.84
MERIT ULTRA LIGHTS	0.48	5.2	0.44
Now	0.46	3.4	0.32
Winston Ultra Lights	0.44	5.8	0.47
Raleigh	0.43	15.9	1.10
True	0.41	8.4	0.81
Camel Lights	0.36	10.9	0.81
Viceroy	0.26	15.6	1.08
Barclay	0.25	*	*
Carlton (Box)	0.25	1.1	0.14
MERIT	0.24	10.2	0.80
Sterling Special Blend (Box)	0.20	12.0	0.87
Satin	0.16	10.3	0.93
Raleigh Lights	0.15	10.5	0.79
L & M	0.13	12.1	0.94
Viceroy Lights	0.10	11.0	0.86
PLAYERS (BOX)	0.07	13.8	1.00
CAMBRIDGE	0.07	5.4	0.52
Doral Lights	----	12.4	0.84
100 MM FILTER MENTHOL			
Salem Lights	2.02	9.4	0.71
Salem	1.76	15.4	1.16
Kool	1.62	13.6	0.94
BENSON & HEDGES	1.47	16.6	1.20
B & H LIGHTS	0.89	10.0	0.78
B & H DELUXE ULTRA LIGHTS (BOX)	0.60	5.8	0.46
Newport	0.60	18.7	1.44
Salem Ultra Lights	0.54	5.7	0.46
Belair	0.41	9.6	0.71
Now	0.26	3.5	0.30
MERIT	0.24	9.7	0.76
True	0.22	8.0	0.75
Kool Lights	0.22	10.3	0.82
Bright	0.15	6.7	0.56
Kool Ultra	0.15	*	*
Sterling Special Blend (Box)	0.13	11.8	0.88
MERIT ULTRA LIGHTS	0.12	5.8	0.45
Satin	0.10	10.1	0.85
Kent Golden Lights	0.08	8.2	0.75
Vantage	0.08	9.1	0.69
Barclay	0.07	*	*
Newport Lights	0.07	8.3	0.75
PLAYERS (BOX)	0.05	13.6	0.91
Vantage Ultra Lights	0.05	5.2	0.45
Doral Lights	----	12.8	0.86
100 MM FILTER SLIM			
VIRGINIA SLIMS LIGHTS (BOX)	0.91	9.0	0.69
VIRGINIA SLIMS	0.78	15.0	1.04
More Lights (Box)	0.29	9.1	0.78
Silva Thins	0.09	10.9	0.99
100 MM FILTER SLIM MENTHOL			
VIRGINIA SLIMS LIGHTS (BOX)	1.06	8.9	0.67
VIRGINIA SLIMS	0.66	14.8	1.06
Salem Slim Lights (Box)	0.49	7.7	0.63
More Lights (Box)	0.19	9.1	0.73
Silva Thins	0.03	10.9	0.94
100 MM FILTER CHARCOAL			
Tareyton	0.55	12.3	0.90
PARLIAMENT LIGHTS	0.50	11.7	0.86
Tareyton Long Lights	0.11	8.0	0.70
Lark Lights	0.09	13.2	1.04
Lark	0.04	14.0	1.03
85 MM FILTER CHARCOAL			
Tareyton	0.62	13.0	0.96
Lark Lights	0.08	11.7	0.86
Lark	0.08	12.3	0.91
B & H MULTIFILTER	0.07	11.4	0.81
Tareyton Lights	0.07	5.0	0.40
B & H MULTIFILTER MEN.	----	13.2	0.88
85 MM FILTER PLAIN			
MARLBORO	7.43	16.4	1.09
Winston	6.48	15.8	1.12
MARLBORO LIGHTS	4.23	11.2	0.81
Winston Lights	2.61	10.4	0.78
MARLBORO LIGHTS (BOX)	1.98	11.0	0.79
Vantage	1.84	8.7	0.67
MERIT	1.52	8.1	0.61
Camel	1.37	15.2	1.08
Camel Lights	1.20	8.8	0.64
Kent	1.02	12.4	0.92
Viceroy	0.81	15.2	1.01
MERIT ULTRA LIGHTS	0.62	4.7	0.41
Raleigh	0.61	15.5	1.00
Carlton	0.57	1.6	0.16
Kent Golden Lights	0.56	7.9	0.72
True	0.55	5.7	0.51
Kent III	0.54	3.8	0.40
L & M	0.46	12.4	0.87
Barclay	0.38	*	*
Vantage Ultra Lights	0.38	6.0	0.48
MERIT (BOX)	0.37	8.2	0.64
PARLIAMENT LIGHTS	0.30	9.5	0.70
Winston Ultra Lights	0.26	5.3	0.45
Lucky Strike	0.23	10.5	0.86
Old Gold	0.22	16.0	1.27
Now	0.21	1.7	0.17
Raleigh Lights	0.14	10.6	0.82
PLAYERS (BOX)	0.11	11.7	0.86
Viceroy Lights	0.09	10.6	0.80
CAMBRIDGE	0.03	1.6	0.18
CAMBRIDGE (BOX)	----	0.0	0.00
Carlton (Box)	----	0.0	0.00
Lucky Strike (Box)	----	12.2	0.97
Doral Lights	----	12.3	0.79
85 MM FILTER MENTHOL			
Kool	4.70	16.6	1.09
Salem	2.75	14.5	0.98
Salem Lights	2.49	9.5	0.71
Newport	2.01	16.5	1.25
Kool Milds	1.08	11.1	0.81
Belair	0.48	10.9	0.86
Vantage	0.33	8.4	0.66
MARLBORO	0.29	15.9	1.08
MERIT	0.27	7.8	0.59
Salem Ultra Lights	0.27	5.2	0.42
True	0.26	5.6	0.54
Newport Lights	0.25	8.2	0.74
Kool Lights	0.22	8.9	0.71
Carlton	0.20	1.1	0.13
MERIT ULTRA LIGHTS	0.17	4.7	0.40
Kool Ultra	0.13	*	*
PLAYERS (BOX)	0.09	11.9	0.84
Now	0.09	1.4	0.16
Barclay	0.06	*	*
Bright	0.06	5.9	0.49
ALPINE	0.04	15.5	1.10
Vantage Ultra Lights	0.04	5.0	0.41
Kent Golden Lights	0.03	7.5	0.69
Doral Lights	----	12.1	0.75
80 MM FILTER (BOX)			
MARLBORO	7.92	16.2	1.09
Winston	0.53	15.5	1.09
PARLIAMENT LIGHTS	0.39	9.4	0.72
Camel Lights	0.18	9.4	0.74
Barclay	0.12	*	*
Kent	0.04	11.6	0.90
Now	----	0.0	0.00
85 MM NONFILTER			
Pall Mall	3.70	21.8	1.45
Chesterfield King	0.42	21.3	1.43
P.M. COMMANDER	0.11	26.6	1.68
70 MM NONFILTER			
Camel	2.23	19.5	1.33
Lucky Strike	0.85	23.5	1.47
PHILIP MORRIS	0.02	21.7	1.40

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.
*The FTC has determined that its present methodology does not accurately measure the smoke deliveries of cigarettes incorporating a "Barclay-type" filter.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

FEDERAL TRADE COMMISSION DATA PUBLISHED JANUARY, 1985

ALPHABETICAL LISTING OF BRANDS WITH TAR AND NICOTINE CONTENT

Tar and Nicotine Content of Two Hundred Seven (207) Varieties of Domestic Cigarettes

BRAND	TYPE [2]	TAR,[1] MG/CIGT.	NICOTINE, MG/CIGT.
ALPINE	F,M,SP, 85 mm	16	0.9
Belair	F,M,SP, 85 mm	10	0.7
Belair	F,M,SP, 100 mm	8	0.6
BENSON & HEDGES	Reg., F,HP, 70 mm	1	0.1
BENSON & HEDGES	F,HP, 85 mm	15	1.1
BENSON & HEDGES 100's	F,HP, 100 mm	16	1.0
BENSON & HEDGES 100's	F,M,HP, 100 mm	16	1.0
BENSON & HEDGES 100's	F,SP, 100 mm	16	1.0
BENSON & HEDGES 100's	F,M,SP, 100 mm	16	1.0
BENSON & HEDGES LIGHTS	F,SP, 100 mm	10	0.7
BENSON & HEDGES LIGHTS	F,M,SP, 100 mm	10	0.7
B & H DELUXE ULTRA LIGHTS	F,HP, 100 mm	5	0.4
B & H DELUXE ULTRA LIGHTS	F,M,HP, 100 mm	5	0.4
Bright	F,M,SP, 85 mm	6	0.5
Bright	F,M,SP, 100 mm	6	0.5
Bull Durham	F,SP, 85 mm	28	1.8
CAMBRIDGE	F,HP, 85 mm	*	*
CAMBRIDGE	F,SP, 85 mm	1	0.1
CAMBRIDGE	F,SP, 100 mm	5	0.4
Camel	Reg.,NF,SP, 70 mm	21	1.4
Camel	F, HP, 80 mm	16	1.1
Camel	F,SP, 85 mm	16	1.1
Camel Lights	F,HP, 80 mm	9	0.7
Camel Lights	F,SP, 85 mm	8	0.7
Camel Lights	F,SP, 100 mm	11	0.8
Carlton	F,HP, 85 mm	*	*
Carlton	F,SP, 85 mm	1	0.1
Carlton	F,M,SP, 85 mm	1	0.1
Carlton	F,M,HP, 100 mm	*	*
Carlton	F,HP, 100 mm	1	0.1
Carlton 100's	F,SP, 100 mm	5	0.4
Carlton 100's	F,M,SP, 100 mm	5	0.4
Carlton	F,SP, 120 mm	7	0.6
Carlton	F,M,SP, 120 mm	7	0.6
Century	F, SP, 85 mm	14	0.9
Century Lights	F, SP, 85 mm	9	0.7
Chesterfield	Reg.,NF,SP, 70 mm	19	1.2
Chesterfield	NF,SP, 85 mm	22	1.5
Dorado	F, SP, 85 mm	13	0.9
Doral II	F,SP, 85 mm	4	0.4
Doral II	F,M,SP, 85 mm	4	0.4
ENGLISH OVALS	Reg.,NF,HP, 70 mm	23	1.5
ENGLISH OVALS	NF,HP, 85 mm	28	2.1
Eve Lights	F,SP, 100 mm	12	0.9
Eve Lights	F,M,SP, 100 mm	12	0.9
Eve Lights	F,HP, 120 mm	14	1.1
Eve Lights	F,M,HP, 120 mm	14	1.1
GALAXY	F,SP, 85 mm	14	0.9
Half & Half	F,SP, 85 mm	18	1.3
Herbert Tareyton	NF,SP, 85 mm	24	1.5
Iceberg 100's	F,M,SP, 100 mm	4	0.3
Kent	F,HP, 80 mm	12	0.9
Kent	F,SP, 85 mm	12	0.9
Kent III	F,SP, 85 mm	3	0.3
Kent Golden Lights	F,SP, 85 mm	9	0.8
Kent Golden Lights	F,M,SP, 85 mm	8	0.7
Kent	F,SP, 100 mm	13	1.0
Kent	F,M,SP, 100 mm	15	1.2
Kent III	F,SP, 100 mm	4	0.4
Kent Golden Lights	F,SP, 100 mm	9	0.8
Kent Golden Lights	F,M,SP, 100 mm	9	0.8
Kool	Reg.,NF,M,SP, 70 mm	20	1.2
Kool	F,M,HP, 80 mm	16	1.1
Kool	F,M,SP, 85 mm	16	1.0
Kool Lights	F,M,SP, 85 mm	8	0.7
Kool Milds	F,M,SP, 85 mm	10	0.7
**Kool Ultra	F,M,SP, 85 mm	2	0.1
Kool Lights 100's	F,M,SP, 100 mm	9	0.7
Kool Milds	F,M,SP, 100 mm	11	0.8
Kool Super Longs	F,M,SP, 100 mm	14	0.9
**Kool Ultra 100's	F,M,SP, 100 mm	4	0.4
L & M	F,HP, 80 mm	13	0.9
L & M	F,SP, 85 mm	13	0.9
L & M Lights	F,SP, 85 mm	8	0.7
L & M	F,SP, 100 mm	14	1.0
L & M Lights	F,SP, 100 mm	8	0.8
Lark	F,SP, 85 mm	14	0.9
Lark Lights	F,SP, 85 mm	13	0.9
Lark 100's	F,SP, 100 mm	15	1.0
Lark Lights 100's	F,SP, 100 mm	13	1.0
Lucky Strike	Reg.,NF,SP, 70 mm	23	1.4
Lucky Strike	F,SP, 85 mm	10	0.8
Lucky Strike	F,HP, 85 mm	11	0.8
Lucky Strike	F,SP, 100 mm	11	0.9
MARLBORO	F,HP, 80 mm	16	1.0
MARLBORO	F,SP, 85 mm	16	1.0
MARLBORO	F,M,SP, 85 mm	16	1.0
MARLBORO LIGHTS	F,HP, 85 mm	10	0.7
MARLBORO LIGHTS	F,SP, 85 mm	10	0.7
MARLBORO	F,HP, 100 mm	16	1.0
MARLBORO	F,SP, 100 mm	16	1.0
MARLBORO LIGHTS	F,SP, 100 mm	10	0.7
Max	F,SP, 120 mm	18	1.4
Max	F,M,SP, 120 mm	19	1.4
MERIT	F,SP, 85 mm	8	0.5
MERIT	F,M,SP, 85 mm	8	0.5
MERIT ULTRA LIGHTS	F,SP, 85 mm	5	0.4
MERIT ULTRA LIGHTS	F,M,SP, 85 mm	5	0.4
MERIT ULTRA LIGHTS	F,SP, 100 mm	5	0.4
MERIT ULTRA LIGHTS	F,M,SP, 100 mm	4	0.4
MERIT	F,SP, 100 mm	10	0.7
MERIT	F,M,SP, 100 mm	9	0.7

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FEDERAL TRADE COMMISSION DATA PUBLISHED JANAURY, 1985

ALPHABETICAL LISTING OF BRANDS WITH TAR AND NICOTINE CONTENT (continued)

BRAND	TYPE [2]	TAR,[1] MG/CIGT.	NICOTINE, MG/CIGT.
Montclair	F,M,SP, 85 mm	15	1.0
More Lights 100's	F,HP, 100 mm	8	0.6
More Lights 100's	F,M,HP, 100 mm	8	0.6
More	F,SP, 120 mm	17	1.2
More	F,M,SP, 120 mm	16	1.2
MULTIFILTER	F,SP, 85 mm	12	0.8
MULTIFILTER	F,M,SP, 85 mm	12	0.8
Newport Red	F,HP,80 mm	12	0.9
Newport	F,M,HP, 80 mm	16	1.1
Newport Lights	F,M,HP, 80 mm	9	0.7
Newport Red	F,SP, 85 mm	14	1.0
Newport	F,M,SP, 85 mm	17	1.2
Newport Lights	F,M,SP, 85 mm	8	0.7
Newport	F,M,SP, 100 mm	19	1.5
Newport Lights 100's	F,M,SP, 100 mm	10	0.8
Now	F,HP, 80 mm	*	*
Now	F,SP, 85 mm	1	0.1
Now	F,M,SP, 85 mm	1	0.1
Now	F,HP, 100 mm	*	0.1
Now	F,SP, 100 mm	3	0.3
Now	F,M,SP, 100 mm	2	0.2
Old Gold Straight	NF,SP, 85 mm	26	1.6
Old Gold Filters	F,SP, 85 mm	17	1.3
Old Gold Lights	F,SP, 85 mm	9	0.8
Old Gold Filters	F,SP, 100 mm	20	1.5
Pall Mall	NF,SP, 85 mm	23	1.3
Pall Mall	F,SP, 85 mm	17	1.1
Pall Mall Extra Light	F,SP, 85 mm	7	0.6
Pall Mall	F,SP, 100 mm	15	1.1
Pall Mall Light	F,SP, 100 mm	9	0.7
Pall Mall Light	F,M,SP, 100 mm	12	1.0
PARLIAMENT LIGHTS	F,HP, 80 mm	9	0.6
PARLIAMENT LIGHTS	F,SP, 85 mm	9	0.6
PARLIAMENT LIGHTS 100's	F,SP, 100 mm	12	0.8
PHILIP MORRIS	NF,SP, 70 mm	21	1.2
PHILIP MORRIS COMMANDER	NF,SP, 85 mm	26	1.6
P.M. INTERNATIONAL	F,HP, 100 mm	17	1.1
P.M. INTERNATIONAL	F,M,HP, 100 mm	17	1.1
Picayune	Reg.,NF,SP, 70 mm	16	1.0
PLAYERS	Reg.,NF,HP, 70 mm	25	1.9
PLAYERS	F,HP, 85 mm	12	0.8
PLAYERS	F,M,HP, 85 mm	12	0.8
PLAYERS	F,HP, 100 mm	13	0.9
PLAYERS	F,M,HP, 100 mm	13	0.9
Raleigh	NF,SP, 85 mm	25	1.4
Raleigh	F,SP, 85 mm	15	0.9
Raleigh Lights	F,SP, 85 mm	10	0.8
Raleigh	F,SP, 100 mm	16	1.0
Raleigh Lights 100's	F,SP, 100 mm	9	0.7
Richland	F,SP, 85 mm	16	1.1
Richland	F,M,SP, 85 mm	15	1.0
St. Moritz	F,SP, 100 mm	14	1.1
St. Moritz	F,M,SP, 100 mm	14	1.1
Salem	F,M,SP, 85 mm	16	1.1
Salem Lights	F,M,SP, 85 mm	9	0.7
Salem Ultra	F,M,SP, 85 mm	5	0.4
Salem	F,M,SP, 100 mm	16	1.2
Salem Lights	F,M,SP, 100 mm	9	0.7
Salem Slim Lights	F,M,HP, 100 mm	8	0.7
Salem Ultra	F,M,SP, 100 mm	5	0.4
SARATOGA	F,HP, 120 mm	14	0.9
SARATOGA	F,M,HP, 120 mm	14	0.9
Satin	F,SP, 100 mm	10	0.9
Satin	F,M,SP, 100 mm	9	0.8
Silva Thins	F,SP, 100 mm	11	0.9
Silva Thins	F,M,SP, 100 mm	11	0.9
Spring 100's	F,M,SP, 100 mm	19	1.1
Tall	F,SP, 120 mm	20	1.5
Tall	F,M,SP, 120 mm	17	1.3
Tareyton	F,SP, 85 mm	13	0.9
Tareyton Lights	F,SP, 85 mm	4	0.4
Tareyton	F,SP, 100 mm	13	0.9
Tareyton Long Lights	F,SP, 100 mm	7	0.6
Triumph	F,SP, 85 mm	3	0.3
Triumph	F,M,SP, 85 mm	3	0.3
Triumph	F,SP, 100 mm	4	0.4
Triumph	F,M,SP, 100 mm	4	0.4
True	F,SP, 85 mm	5	0.4
True	F,M,SP, 85 mm	5	0.4
True	F,SP, 100 mm	8	0.6
True	F,M,SP, 100 mm	7	0.6
Vantage	F,SP, 85 mm	10	0.7
Vantage	F,M,SP, 85 mm	9	0.7
Vantage	F,SP, 100 mm	9	0.7
Vantage	F,M,SP, 100 mm	9	0.7
Vantage Ultra Lights	F,SP, 85 mm	5	0.4
Vantage Ultra Lights	F,M,SP, 85 mm	5	0.4
Vantage Ultra Lights	F,SP, 100 mm	5	0.5
Vantage Ultra Lights	F,M,SP, 100 mm	5	0.4
Viceroy	F,SP, 85 mm	16	0.9
Viceroy Rich Lights	F,SP, 85 mm	10	0.7
Viceroy Super Longs	F,SP, 100 mm	14	0.9
Viceroy Rich Lights	F,SP, 100 mm	11	0.8
VIRGINIA SLIMS	F,SP, 100 mm	14	0.9
VIRGINIA SLIMS	F,M,SP, 100 mm	14	0.9
VIRGINIA SLIMS LIGHTS	F,HP, 100 mm	8	0.6
VIRGINIA SLIMS LIGHTS	F,M,HP, 100 mm	8	0.6
Winston	F,HP, 80 mm	16	1.1
Winston	F,SP, 85 mm	16	1.1
Winston Lights	F,SP, 85 mm	8	0.7
Winston Ultra	F,SP, 85 mm	5	0.4
Winston 100's	F,SP, 100 mm	17	1.2
Winston Lights 100's	F,SP, 100 mm	11	0.8
Winston Ultra	F,SP, 100 mm	5	0.5
Winston International	F,HP, 100 mm	16	1.1

TAR RANKING

[1]Tar = milligrams total particulate matter less nicotine and water.
[2]F = filter; NF = nonfilter; M = menthol; HP = hard pack; SP = soft pack; mm = millimeter

*Indicates "tar" below 0.5 mg; nicotine below 0.05 mg per cigarette.
**The present testing methodology for tar and nicotine does not accurately measure Brown & Williamson's Barclay cigarettes; therefore, Barclay data are not reported. At the same time, there is a significant likelihood that the same problem exists for the Kool Ultra cigarettes. Therefore, two asterisks have been appended to these cigarettes to indicate this controversy.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

PHILIP MORRIS DATA

BRANDS RANKED ACCORDING TO FTC TAR

	BRAND	SIZE	FTC TAR, MG/CIGT.	NICOTINE, MG/CIGT.
1.	Carlton (Box)	KF	0.0	0.00
2.	Now (Box)	LF	0.0	0.00
3.	CAMBRIDGE (BOX)	KF	0.0	0.00
4.	Carlton Men.	KFM	1.1	0.13
5.	Carlton (Box)	100	1.1	0.14
6.	Now Men.	KFM	1.4	0.16
7.	BENSON & HEDGES (BOX)	RF	1.5	0.14
8.	Carlton	KF	1.6	0.16
9.	CAMBRIDGE	KF	1.6	0.18
10.	Now	KF	1.7	0.17
11.	Now	100	3.4	0.32
12.	Now Men.	100M	3.5	0.30
13.	Triumph	KF	3.5	0.38
14.	Kent III	KF	3.8	0.40
15.	Iceberg 100'S	100M	3.9	0.35
16.	Triumph Men.	KFM	3.9	0.40
17.	MERIT ULTRA LIGHTS MEN.	KFM	4.7	0.40
18.	MERIT ULTRA LIGHTS	KF	4.7	0.41
19.	Kent III	100	4.8	0.52
20.	Triumph Men.	100M	4.9	0.50
21.	Kent III (Box)	100	4.9	0.53
22.	Tareyton Lights	KFC	5.0	0.40
23.	Vantage Ultra Lights Men.	KFM	5.0	0.41
24.	Carlton Men.	100M	5.0	0.42
25.	Triumph	100	5.1	0.52
26.	Salem Ultra Lights	KFM	5.2	0.42
27.	MERIT ULTRA LIGHTS	100	5.2	0.44
28.	Vantage Ultra Lights Men.	100M	5.2	0.45
29.	Winston Ultra Lights	KF	5.3	0.45
30.	CAMBRIDGE	100	5.4	0.52
31.	Vantage Ultra Lights	100	5.5	0.44
32.	Carlton Slims Deluxe (Box)	100	5.6	0.52
33.	True Men.	KFM	5.6	0.54
34.	Salem Ultra Lights	100M	5.7	0.46
35.	True	KF	5.7	0.51
36.	MERIT ULTRA LIGHTS MEN.	100M	5.8	0.45
37.	B&H DELUXE U.L. MEN.(BOX)	100M	5.8	0.46
38.	Winston Ultra Lights	100	5.8	0.47
39.	Carlton Slims Dlx Men(Box)	100M	5.8	0.52
40.	Bright	KFM	5.9	0.49
41.	Carlton	100	5.9	0.50
42.	Vantage Ultra Lights	KF	6.0	0.48
43.	B&H DELUXE U.L.(BOX)	100	6.3	0.48
44.	Bright	100M	6.7	0.56
45.	Pall Mall Extra Light	KF	6.9	0.66
46.	Carlton Men.	120M	7.1	0.65
47.	Lucky Strike Lights	KF	7.5	0.62
48.	Kent Golden Lights Men.	KFM	7.5	0.69
49.	Salem Slim Lights (Box)	100M	7.7	0.63
50.	Carlton	120	7.7	0.70
51.	MERIT MEN.	KFM	7.8	0.59
52.	Kent Golden Lights	KF	7.9	0.72
53.	Tareyton Long Lights	100C	8.0	0.70
54.	True Men.	100M	8.0	0.75
55.	MERIT	KF	8.1	0.61
56.	MERIT (BOX)	KF	8.2	0.64
57.	Newport Lights	KFM	8.2	0.74
58.	Kent Golden Lights Men.	100M	8.2	0.75
59.	Newport Lights	100M	8.3	0.75
60.	Vantage Men.	KFM	8.4	0.66
61.	Newport Lights (Box)	LF	8.4	0.78
62.	True	100	8.4	0.81
63.	Vantage	KF	8.7	0.67
64.	Camel Lights	KF	8.8	0.64
65.	Kent Golden Lights	100	8.8	0.84
66.	VA SLIMS LIGHTS MEN.(BOX)	100M	8.9	0.67
67.	Kool Lights	KFM	8.9	0.71
68.	Old Gold Lights	KF	8.9	0.87
69.	VA SLIMS LIGHTS (BOX)	100	9.0	0.69
70.	Lucky Strike Lights	100	9.0	0.77
71.	Vantage Men.	100M	9.1	0.69
72.	More Lights Men. (Box)	100M	9.1	0.73
73.	More Lights (Box)	100	9.1	0.78
74.	Vantage	100	9.2	0.71
75.	Salem Lights	100M	9.4	0.71
76.	PARLIAMENT LIGHTS (BOX)	LF	9.4	0.72
77.	Camel Lights (Box)	LF	9.4	0.74
78.	PARLIAMENT LIGHTS	KF	9.5	0.70
79.	Salem Lights	KFM	9.5	0.71
80.	Belair	100M	9.6	0.71
81.	MERIT MEN.	100M	9.7	0.76
82.	B&H LIGHTS MEN.	100M	10.0	0.78
83.	Pall Mall Light	100	10.1	0.79
84.	Satin Men.	100M	10.1	0.85
85.	MERIT	100	10.2	0.80
86.	Kool Lights	100M	10.3	0.82
87.	Satin	100	10.3	0.93
88.	Winston Lights	KF	10.4	0.78
89.	Raleigh Lights	100	10.5	0.79
90.	Lucky Strike	KF	10.5	0.86
91.	Viceroy Lights	KF	10.6	0.80
92.	Raleigh Lights	KF	10.6	0.82
93.	Camel Lights	100	10.9	0.81
94.	Belair	KFM	10.9	0.86
95.	Silva Thins Men.	100M	10.9	0.94
96.	Silva Thins	100	10.9	0.99
97.	MARLBORO LIGHTS (BOX)	KF	11.0	0.79
98.	Kool Milds	KFM	11.0	0.81
99.	Viceroy Lights	100	11.0	0.86
100.	Winston Lights	100	11.1	0.83
101.	B&H LIGHTS	100	11.1	0.84
102.	MARLBORO LIGHTS	100	11.2	0.80
103.	MARLBORO LIGHTS	KF	11.2	0.81
104.	MARLBORO LIGHTS (BOX)	100	11.2	0.87

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

PHILIP MORRIS DATA

BRANDS RANKED ACCORDING TO FTC TAR

	BRAND	SIZE	FTC TAR, MG/CIGT.	NICOTINE, MG/CIGT.
105.	B&H MULTIFILTER	KFC	11.4	0.81
106.	Eve Slim Lights (Box)	100	11.4	0.91
107.	Lucky Strike	100	11.5	0.97
108.	Eve Slim Lights Men.(Box)	100M	11.6	0.90
109.	Kent (Box)	LF	11.6	0.90
110.	Lark Lights	KFC	11.7	0.86
111.	PARLIAMENT LIGHTS	100C	11.7	0.86
112.	PLAYERS (BOX)	KF	11.7	0.86
113.	Sterling Spc.Bl Men.(Box)	100M	11.8	0.88
114.	L&M (Box)	LF	11.9	0.80
115.	Kool Milds	100M	11.9	0.83
116.	PLAYERS MEN. (BOX)	KFM	11.9	0.84
117.	Sterling Spc Blend(Box)	100	12.0	0.87
118.	Doral Lights Men.	KFM	12.1	0.75
119.	L&M	100	12.1	0.94
120.	Lucky Strike (Box)	KF	12.2	0.97
121.	Doral Lights	KF	12.3	0.79
122.	Tareyton	100C	12.3	0.90
123.	Lark	KFC	12.3	0.91
124.	Doral Lights	100	12.4	0.84
125.	L&M	KF	12.4	0.87
126.	Kent	KF	12.4	0.92
127.	Pall Mall Lights Men.	100M	12.6	1.10
128.	Eve Lights Men. (Box)	120M	12.7	1.02
129.	Doral Lights Men.	100M	12.8	0.86
130.	Eve Lights (Box)	120	12.9	1.04
131.	Tareyton	KFC	13.0	0.96
132.	St. Moritz	100	13.1	1.01
133.	B&H MULTIFILTER MEN.	KFMC	13.2	0.88
134.	Lark Lights	100C	13.2	1.04
135.	PLAYERS MEN. (BOX)	100M	13.6	0.91
136.	Kool	100M	13.6	0.94
137.	HI-LITE (BOX)	100	13.6	1.06
138.	Kent	100	13.7	1.13
139.	PLAYERS (BOX)	100	13.8	1.00
140.	St. Moritz Men.	100M	13.9	1.07
141.	GALAXY	KFC	14.0	0.98
142.	Lark	100C	14.0	1.03
143.	Salem	KFM	14.5	0.98
144.	SARATOGA MEN. (BOX)	120M	14.5	1.12
145.	VIRGINIA SLIMS MEN.	100M	14.8	1.06
146.	SARATOGA (BOX)	120	14.9	1.06
147.	Montclair	KFM	14.9	1.09
148.	VIRGINIA SLIMS	100	15.0	1.04
149.	Kent Men.	100M	15.1	1.29
150.	Viceroy	KF	15.2	1.01
151.	Camel	KF	15.2	1.08
152.	Camel (Box)	LF	15.3	1.06
153.	Pall Mall	100	15.3	1.16
154.	Salem	100M	15.4	1.16
155.	Newport (Box)	LFM	15.4	1.20
156.	Raleigh	KF	15.5	1.00
157.	Winston (Box)	LF	15.5	1.09
158.	ALPINE	KFM	15.5	1.10
159.	Viceroy	100	15.6	1.08
160.	More Men.	120M	15.6	1.17
161.	Winston	KF	15.8	1.12
162.	More	120	15.8	1.15
163.	MARLBORO MEN.	KFM	15.9	1.08
164.	Raleigh	100	15.9	1.10
165.	Kool (Box)	LFM	15.9	1.11
166.	BENSON & HEDGES (BOX)	KF	15.9	1.34
167.	BENSON & HEDGES MEN.(BOX)	100M	16.0	1.09
168.	Old Gold	KF	16.0	1.27
169.	Winston	100	16.2	1.02
170.	MARLBORO (BOX)	LF	16.2	1.09
171.	MARLBORO	KF	16.4	1.09
172.	BENSON & HEDGES	100	16.4	1.18
173.	MARLBORO (BOX)	100	16.5	1.18
174.	Newport	KFM	16.5	1.25
175.	Kool	KFM	16.6	1.09
176.	Winston Intl (Box)	93	16.6	1.20
177.	BENSON & HEDGES MEN.	100M	16.6	1.20
178.	Pall Mall	KF	16.6	1.28
179.	BENSON & HEDGES (BOX)	100	16.7	1.14
180.	P.M. INTL MEN (BOX)	100M	16.8	1.10
181.	MARLBORO	100	16.8	1.18
182.	P.M. INTL (BOX)	100	17.0	1.12
183.	ENGLISH OVALS (BOX)	RNF	17.6	1.34
184.	Half & Half	KF	17.8	1.49
185.	Max	120	17.8	1.50
186.	Max Men.	120M	17.9	1.52
187.	Long Johns	120	18.0	1.54
188.	Tall Men.	120M	18.2	1.59
189.	Chesterfield	RNF	18.3	1.21
190.	Newport	100M	18.7	1.44
191.	Spring	100M	19.0	1.17
192.	Old Gold	100	19.3	1.60
193.	Camel	RNF	19.5	1.33
194.	PLAYERS (BOX)	RNF	20.4	1.49
195.	Tall	120	20.4	1.70
196.	Kool	RNFM	20.5	1.30
197.	Chesterfield King	KNF	21.3	1.43
198.	PHILIP MORRIS	RNF	21.7	1.40
199.	Pall Mall	KNF	21.8	1.45
200.	ENGLISH OVALS (BOX)	KNF	22.1	1.77
201.	Lucky Strike	RNF	23.5	1.47
202.	H. Tareyton	KNF	24.1	1.68
203.	Raleigh	KNF	24.4	1.49
204.	Old Gold	KNF	24.6	1.76
205.	P.M. COMMANDER	KNF	26.6	1.68
206.	Bull Durham	KF	28.6	2.07

85mm PLAIN

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR FILTER CIGARETTES (BOX)

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	CB6B Cambridge (Box)	CR6B Carlton (Box)	NO4B Now (Box)	BY4B Barclay* (Box)
[1]Sales	----	----	----	0.12
Smoke				
FTC Tar, mg/cigt.	0.00	0.00	0.00	* 1.1
Nicotine, mg/cigt.	0.00	0.00	0.00	* 0.11
Puffs/cigt.	8.1	6.6	6.8	* 8.2
Filtration Eff., %	-	-	-	76
Filler Rod TPM, mg/cigt.	-	-	-	32.9
CO, mg/cigt.	<0.4	<0.4	<0.4	* 1.4
Cigarette				
Total RTD, mm of H_2O	130	126	98	24
Static Burn. Time, min.	6.8	6.0	6.2	7.6
Length, mm	82.9	82.7	79.2	79.8
Circumference, mm	24.9	24.8	24.9	25.0
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.4	0.8	0.8	0.7
Porosity, sec.	12	7**	16	13
Filter				
Type	CA	CA	CA	CA
Inner	----	----	----	----
Outer	----	----	----	----
RTD, mm of H_2O	279	293	172	98
Length, mm	31.6	32.0	27.6	27.0
Weight, g	0.28	0.26	0.19	0.18
Fiber denier/shape	2.0/Y	1.9/Y	1.8/Y	2.4/Y
Inner	----	----	----	----
Outer	----	----	----	----
Tipping Paper				
Length, mm	36	36	32	32
Color	White	White	White	Cork
Ventilation, %	97	98	94	81
Filler				
Total alkaloids, % (DWB)	2.23	2.20	2.74	2.01
Total red. sugars, % (DWB)	6.1	7.0	8.4	7.6
Reconstituted Tob., %	14	17	None	18
Expanded Stems, %	None	None	None	6
Expanded Tob., %	30	54	94	10
Wt. of tob., g (Corrected to 12.5% O.V.)	0.513	0.470	0.431	0.628
Rod Length, mm	51.3	50.7	51.6	52.8
Rod Density, g/cc	0.204	0.189	0.169	0.240

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

*The FTC has determined that its present methodology does not accurately measure th smoke deliveries of cigarettes incorporating a "Barclay-type" filter.

**These cigarette papers are perforated.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 85 MM FILTER CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	CR6 Carlton	CB6 Cambridge	NO6 Now	KT6 Kent III
[1]Sales	0.57	0.03	0.21	0.54
Smoke				
FTC Tar, mg/cigt.	1.6	1.6	1.7	3.8
Nicotine, mg/cigt.	0.16	0.18	0.17	0.40
Puffs/cigt.	6.6	8.2	7.2	7.2
Filtration Eff., %	74	72	77	62
Filler Rod TPM, mg/cigt.	24.0	27.2	27.4	29.6
CO, mg/cigt.	2.2	1.4	2.6	3.8
Cigarette				
Total RTD, mm of H_2O	117	106	115	93
Static Burn. Time, min.	5.7	6.6	6.0	6.4
Length, mm	82.5	83.8	83.8	83.9
Circumference, mm	24.8	24.8	24.9	24.9
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.9	0.5	0.4	1.6
Porosity, sec.	13	12	14	20
Filter				
Type	CA	CA	CA	----
Inner	----	----	----	CA
Outer	----	----	----	CA
RTD, mm of H_2O	154	155	168	110
Length, mm	24.9	27.0	26.9	24.9
Weight, g	0.18	0.19	0.19	0.16
Fiber denier/shape	2.0/Y	2.4/Y	2.1/Y	----
Inner	----	----	----	1.8/Y
Outer	----	----	----	2.9/Y
Tipping Paper				
Length, mm	30	32	31	32
Color	White	White	White	White
Ventilation, %	72	76	73	62
Filler				
Total alkaloids, % (DWB)	2.21	2.29	2.23	2.52
Total red. sugars, % (DWB)	7.7	6.7	7.8	8.5
Reconstituted Tob., %	17	14	17	15
Expanded Stems, %	None	None	None	None
Expanded Tob., %	54	30	51	24
Wt. of tob., g (Corrected to 12.5% O.V.)	0.518	0.569	0.510	0.588
Rod Length, mm	57.6	56.8	56.9	59.0
Rod Density, g/cc	0.182	0.204	0.179	0.200

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 85 MM FILTER CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	MU6 Merit Ultra Lights	WU6 Winston Ultra Lights	TU6 True
[1]Sales	0.62	0.26	0.55
Smoke			
FTC Tar, mg/cigt.	4.7	5.3	5.7
Nicotine, mg/cigt.	0.41	0.45	0.51
Puffs/cigt.	7.8	6.8	8.2
Filtration Eff., %	64	62	54
Filler Rod TPM, mg/cigt.	27.8	28.3	29.4
CO, mg/cigt.	5.3	7.3	4.9
Cigarette			
Total RTD, mm of H_2O	110	118	48
Static Burn. Time, min.	6.7	6.0	6.6
Length, mm	83.8	83.6	84.0
Circumference, mm	24.9	25.0	25.0
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.4	1.6	0.6
Porosity, sec.	12	20	18
Filter			
Type	CA	CA	----
Inner	----	----	CA
Outer	----	----	PL
RTD, mm of H_2O	134	132	102
Length, mm	27.0	27.0	25.0
Weight, g	0.19	0.19	0.18
Fiber denier/shape	2.8/Y	2.7/Y	----
Inner	----	----	1.9/Y
Outer	----	----	----
Tipping Paper			
Length, mm	32	31	30
Color	Cork	Cork	White
Ventilation, %	55	49	63
Filler			
Total alkaloids, % (DWB)	2.03	2.05	2.19
Total red. sugars, % (DWB)	6.6	7.5	7.1
Reconstituted Tob., %	20	23	21
Expanded Stems, %	None	None	None
Expanded Tob., %	19	25	11
Wt. of tob., g (Corrected to 12.5% O.V.)	0.628	0.595	0.658
Rod Length, mm	56.8	56.6	59.0
Rod Density, g/cc	0.222	0.211	0.223

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080847

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 85 MM FILTER CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

VU6 Vantage Ultra Lights	BY6 Barclay*	[1]Sales
0.38	0.38	
		Smoke
6.0	* 0.8	FTC Tar, mg/cigt.
0.48	* 0.08	Nicotine, mg/cigt.
7.2	* 8.9	Puffs/cigt.
63	86	Filtration Eff., %
30.0	33.1	Filler Rod TPM, mg/cigt.
7.6	* 0.7	CO, mg/cigt.
		Cigarette
118	20	Total RTD, mm of H_2O
6.4	7.2	Static Burn. Time, min.
83.6	83.8	Length, mm
24.9	25.0	Circumference, mm
		Paper
		Components
Cit.	Cit.	Type
1.4	0.9	Percent
22	14	Porosity, sec.
		Filter
CA	CA	Type
----	----	Inner
----	----	Outer
128	91	RTD, mm of H_2O
27.0	27.0	Length, mm
0.19	0.16	Weight, g
2.6/Y	2.4/Y	Fiber denier/shape
----	----	Inner
----	----	Outer
		Tipping Paper
31	32	Length, mm
White	Cork	Color
49	86	Ventilation, %
		Filler
1.97	1.99	Total alkaloids, % (DWB)
8.2	8.0	Total red. sugars, % (DWB)
23	18	Reconstituted Tob., %
None	6	Expanded Stems, %
25	10	Expanded Tob., %
		Wt. of tob., g (Corrected
0.608	0.672	to 12.5% O.V.)
56.6	56.8	Rod Length, mm
0.215	0.238	Rod Density, g/cc

*The FTC has determined that its present methodology does not accurately measure the smoke deliveries of cigarettes incorporating a "Barclay-type" filter.

2050080848

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 85 MM FILTER CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	KG6 Kent Golden Lights	ME6 Merit	ME6B Merit (Box)	VE6 Vantage
[1]Sales	0.56	1.52	0.37	1.84
Smoke				
FTC Tar, mg/cigt.	7.9	8.1	8.2	8.7
Nicotine, mg/cigt.	0.72	0.61	0.64	0.67
Puffs/cigt.	7.4	8.2	8.3	8.0
Filtration Eff., %	51	62	61	61
Filler Rod TPM, mg/cigt.	28.6	29.2	32.4	30.5
CO, mg/cigt.	8.7	10.0	9.4	11.8
Cigarette				
Total RTD, mm of H_2O	100	136	135	104
Static Burn. Time, min.	6.9	8.2	8.4	7.4
Length, mm	83.7	83.8	83.0	83.8
Circumference, mm	24.8	24.9	24.9	25.0
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	1.6	0.4	0.5	0.9
Porosity, sec.	18	15	15	14
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	81	126	124	85
Length, mm	25.0	27.1	27.0	25.0
Weight, g	0.15	0.18	0.18	0.28
Fiber denier/shape	3.1/Y	2.7/Y	2.5/Y	1.6/R
Tipping Paper				
Length, mm	32	32	32	30
Color	White	Cork	Cork	Cork
Ventilation, %	38	29	29	24
Filler				
Total alkaloids, % (DWB)	2.14	2.00	1.98	1.95
Total red. sugars, % (DWB)	9.5	8.8	8.3	9.5
Reconstituted Tob., %	22	20	20	23
Expanded Stems, %	None	2	2	None
Expanded Tob., %	12	12	12	17
Wt. of tob., g (Corrected to 12.5% O.V.)	0.669	0.675	0.670	0.693
Rod Length, mm	58.7	56.7	56.0	58.8
Rod Density, g/cc	0.232	0.244	0.243	0.238

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080849

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 85 MM FILTER CIGARETTES
(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

CL6 Camel Lights	PR6 Parliament Lights	WL6 Winston Lights	LS6 Lucky Strike	
1.20	0.30	2.61	0.23	[1]Sales
				Smoke
8.8	9.5	10.4	10.5	FTC Tar, mg/cigt.
0.64	0.70	0.78	0.86	Nicotine, mg/cigt.
8.1	8.0	8.4	8.0	Puffs/cigt.
60	55	58	50	Filtration Eff., %
30.8	31.2	30.9	30.8	Filler Rod TPM, mg/cigt.
11.6	9.9	12.8	11.4	CO, mg/cigt.
				Cigarette
133	122	135	105	Total RTD, mm of H_2O
7.6	7.2	7.7	7.5	Static Burn. Time, min.
84.0	84.0	84.0	82.6	Length, mm
25.0	24.9	24.9	25.0	Circumference, mm
				Paper
				Components
Cit.	Cit.	Cit.	Cit.	Type
1.4	1.8	0.4	0.7	Percent
20	13	20	18	Porosity, sec.
				Filter
CA	CA	CA	CA	Type
121	117	111	78	RTD, mm of H_2O
27.0	25.1[2]	27.0	24.6	Length, mm
0.18	0.14	0.18	0.15	Weight, g
2.4/Y	2.5/Y	2.8/Y	2.8/Y	Fiber denier/shape
				Tipping Paper
31	30	31	30	Length, mm
Cork	White	Cork	Cork	Color
30	32	23	24	Ventilation, %
				Filler
1.79	1.92	1.81	2.04	Total alkaloids, % (DWB)
8.1	6.8	8.2	10.5	Total red. sugars, % (DWB)
27	24	23	17	Reconstituted Tob., %
None	2	None	7	Expanded Stems, %
17	12	16	13	Expanded Tob., %
				Wt. of tob., g (Corrected
0.689	0.700	0.685	0.685	to 12.5% O.V.)
57.0	58.9	57.0	58.0	Rod Length, mm
0.244	0.241	0.243	0.241	Rod Density, g/cc

[2]The reported value includes the recessed portion.

2050080850

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 85 MM FILTER CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	VL6 Viceroy Lights	RG-6 Raleigh Lights	ML6B Marlboro Lights (Box)	ML6 Marlboro Lights
[1]Sales	0.09	0.14	1.98	4.23
Smoke				
FTC Tar, mg/cigt.	10.6	10.6	11.0	11.2
Nicotine, mg/cigt.	0.80	0.82	0.79	0.81
Puffs/cigt.	7.9	7.6	8.2	8.5
Filtration Eff., %	50	48	55	55
Filler Rod TPM, mg/cigt.	29.2	27.5	31.6	32.6
CO, mg/cigt.	10.5	11.3	11.6	12.2
Cigarette				
Total RTD, mm of H_2O	107	104	124	127
Static Burn. Time, min.	7.3	6.8	8.4	8.1
Length, mm	83.6	83.6	82.9	84.0
Circumference, mm	25.0	25.1	24.9	24.9
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.2	0.8	0.5	0.4
Porosity, sec.	13	14	16	14
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	76	72	101	101
Length, mm	24.9	25.0	27.0	27.0
Weight, g	0.14	0.15	0.16	0.17
Fiber denier/shape	2.7/Y	3.6/Y	3.0/Y	3.0/Y
Tipping Paper				
Length, mm	30	30	31	31
Color	Cork	Cork	White	White
Ventilation, %	25	22	20	20
Filler				
Total alkaloids, % (DWB)	2.04	2.07	1.93	1.97
Total red. sugars, % (DWB)	8.2	8.8	7.2	8.2
Reconstituted Tob., %	12	12	21	21
Expanded Stems, %	10	8	2	2
Expanded Tob., %	11	12	12	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.690	0.686	0.674	0.682
Rod Length, mm	58.7	58.6	55.9	57.0
Rod Density, g/cc	0.236	0.234	0.245	0.245

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080851

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 85 MM FILTER CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

PA6B Players (Box)	LS6B Lucky Strike (Box)	DL6 Doral Lights	LM6 L & M	
0.11	----	----	0.46	[1]Sales
				Smoke
11.7	12.2	12.3	12.4	FTC Tar, mg/cigt.
0.86	0.97	0.79	0.87	Nicotine, mg/cigt.
8.3	8.5	6.9	6.6	Puffs/cigt.
50	52	52	46	Filtration Eff., %
31.8	31.0	30.0	27.4	Filler Rod TPM, mg/cigt.
10.8	12.3	14.4	12.8	CO, mg/cigt.
				Cigarette
105	115	140	129	Total RTD, mm of H_2O
8.2	7.7	7.8	7.2	Static Burn. Time, min.
82.8	82.8	84.2	84.5	Length, mm
25.0	24.9	25.0	24.8	Circumference, mm
				Paper
				Components
Cit.	Cit.	Cit.	Cit.	Type
0.6	0.6	0.5	0.5	Percent
17	22	23	12	Porosity, sec.
				Filter
CA	CA	CA	CA	Type
80	82	86	68	RTD, mm of H_2O
27.1	25.1	26.9	25.0	Length, mm
0.17	0.15	0.17	0.15	Weight, g
4.0/Y	2.8/Y	3.1/Y	3.7/Y	Fiber denier/shape
				Tipping Paper
32	30	31	30	Length, mm
Cork	Cork	Cork	White	Color
24	20	----	----	Ventilation, %
				Filler
1.87	2.07	1.70	1.98	Total alkaloids, % (DWB)
7.7	10.6	8.3	9.8	Total red. sugars, % (DWB)
20	17	28	14	Reconstituted Tob., %
2	7	None	6	Expanded Stems, %
12	13	37	22	Expanded Tob., %
				Wt. of tob., g (Corrected to 12.5% O.V.)
0.686	0.692	0.603	0.619	
55.7	57.7	57.3	59.5	Rod Length, mm
0.246	0.244	0.212	0.210	Rod Density, g/cc

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

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LOW TAR 85 MM FILTER CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	KN6 Kent	VC6 Viceroy	CM6 Camel	RL6 Raleigh
[1]Sales	1.02	0.81	1.37	0.61
Smoke				
FTC Tar, mg/cigt.	12.4	15.2	15.2	15.5
Nicotine, mg/cigt.	0.92	1.01	1.08	1.00
Puffs/cigt.	8.5	7.6	8.8	7.6
Filtration Eff., %	46	43	46	46
Filler Rod TPM, mg/cigt.	28.6	28.9	31.4	28.6
CO, mg/cigt.	11.8	14.3	14.0	14.4
Cigarette				
Total RTD, mm of H_2O	97	120	109	116
Static Burn. Time, min.	7.0	7.0	7.6	6.8
Length, mm	84.1	83.8	83.9	83.7
Circumference, mm	25.2	25.0	25.0	25.1
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.6	0.3	0.8	0.3
Porosity, sec.	19	13	16	13
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	64	66	69	64
Length, mm	21.0	21.0	20.9	21.0
Weight, g	0.12	0.12	0.13	0.12
Fiber denier/shape	3.0/Y	3.9/Y	3.0/Y	2.8/Y
Tipping Paper				
Length, mm	25	26	25	26
Color	White	Cork	Cork	Cork
Ventilation, %	25	----	14	----
Filler				
Total alkaloids, % (DWB)	1.93	1.93	1.81	1.93
Total red. sugars, % (DWB)	9.6	9.5	8.3	9.3
Reconstituted Tob., %	19	12	27	12
Expanded Stems, %	None	10	None	12
Expanded Tob., %	12	11	17	(10)
Wt. of tob., g (Corrected to 12.5% O.V.)	0.729	0.706	0.756	0.716
Rod Length, mm	63.1	62.8	63.0	62.7
Rod Density, g/cc	0.231	0.228	0.244	0.228

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

FULL FLAVORED 85 MM FILTER CIGARETTES

(16 MG TAR OR MORE)

(Brands ranked according to FTC Tar, left to right)

	WN6 Winston	OG6 Old Gold	MR6 Marlboro
[1]Sales	6.48	0.22	7.43
Smoke			
FTC Tar, mg/cigt.	15.8	16.0	16.4
Nicotine, mg/cigt.	1.12	1.27	1.09
Puffs/cigt.	9.2	8.1	9.1
Filtration Eff., %	48	46	46
Filler Rod TPM, mg/cigt.	31.9	33.6	32.0
CO, mg/cigt.	14.7	17.6	15.0
Cigarette			
Total RTD, mm of H_2O	122	118	118
Static Burn. Time, min.	8.1	7.5	7.8
Length, mm	84.0	84.2	83.9
Circumference, mm	24.9	25.1	25.0
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.4	0.7	0.5
Porosity, sec.	22	34	16
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	77	65	74
Length, mm	21.0	21.1	21.1
Weight, g	0.14	0.12	0.13
Fiber denier/shape	3.6/Y	3.0/Y	3.2/Y
Tipping Paper			
Length, mm	25	26	25
Color	Cork	Cork	Cork
Ventilation, %	13	----	10
Filler			
Total alkaloids, % (DWB)	1.84	2.14	1.93
Total red. sugars, % (DWB)	7.8	9.3	7.2
Reconstituted Tob., %	23	22	21
Expanded Stems, %	None	None	2
Expanded Tob., %	16	12	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.775	0.726	0.754
Rod Length, mm	63.0	63.1	62.8
Rod Density, g/cc	0.249	0.232	0.244

85mm MENTHOL

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080854

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 85 MM FILTER MENTHOL CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	CR6M Carlton	N06M Now	MU6M Merit Ultra Lights	VU6M Vantage Ultra Lights
[1]Sales	0.20	0.09	0.17	0.04
Smoke				
FTC Tar, mg/cigt.	1.1	1.4	4.7	5.0
Nicotine, mg/cigt.	0.13	0.16	0.40	0.41
Puffs/cigt.	6.4	6.7	8.4	7.5
Filtration Eff., %	78	74	63	62
Filler Rod TPM, mg/cigt.	24.7	25.5	28.6	29.2
CO, mg/cigt.	1.4	2.4	5.2	6.0
Cigarette				
Total RTD, mm of H_2O	107	111	100	110
Static Burn. Time, min.	5.2	5.9	6.8	6.5
Length, mm	82.6	83.6	83.7	83.9
Circumference, mm	25.0	25.0	25.0	25.0
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.9	0.5	(0.5)	1.4
Porosity, sec.	13	13	15	20
Filter				
Type	CA	CA	CA	CA
Inner	----	----	----	----
Outer	----	----	----	----
RTD, mm of H_2O	156	164	125	130
Length, mm	24.9	27.0	27.1	27.0
Weight, g	0.18	0.20	0.19	0.20
Fiber denier/shape	1.8/Y	1.9/Y	2.8/Y	2.4/Y
Inner	----	----	----	----
Outer	----	----	----	----
Tipping Paper				
Length, mm	30	31	32	31
Color	White	White	Cork	White
Ventilation, %	76	75	59	56
Filler				
Total alkaloids, % (DWB)	2.19	2.28	2.03	1.87
Total red. sugars, % (DWB)	7.3	5.9	6.4	8.5
Reconstituted Tob., %	17	17	20	23
Expanded Stems, %	None	None	None	None
Expanded Tob., %	54	51	19	28
Wt. of tob., g (Corrected to 12.5% O.V.)	0.508	0.511	0.627	0.621
Rod Length, mm	57.7	56.6	56.6	56.9
Rod Density, g/cc	0.178	0.180	0.224	0.219
Menthol, mg/cigt.				
Smoke	0.18	0.22	0.41	0.29
Filler	5.3	4.3	3.2	2.7
Filter	2.2	4.4	2.2	1.3
[2]Menthol, µg/puff	26	31	49	37

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 85 MM FILTER MENTHOL CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

SU6M Salem Ultra Lights	TU6M True	BY6M Barclay*	KU6M Kool Ultra*	
0.27	0.26	0.06	0.13	[1]Sales
				Smoke
5.2	5.6	* 1.6	* 2.4	FTC Tar, mg/cigt.
0.42	0.54	* 0.16	* 0.22	Nicotine, mg/cigt.
7.3	8.2	* 8.0	* 7.8	Puffs/cigt.
63	52	74	61	Filtration Eff., %
28.3	30.7	27.2	27.6	Filler Rod TPM, mg/cigt.
7.2	4.5	* 1.0	* 1.5	CO, mg/cigt.
				Cigarette
120	46	24	24	Total RTD, mm of H_2O
6.6	6.6	6.6	6.7	Static Burn. Time, min.
83.8	84.4	84.0	83.7	Length, mm
25.0	25.0	25.0	25.0	Circumference, mm
				Paper
				Components
Cit.	Cit.	Cit.	Cit.	Type
1.7	0.8	0.4	0.9	Percent
20	18	9	12	Porosity, sec.
				Filter
CA	----	CA	CA	Type
----	CA	----	----	Inner
----	PL	----	----	Outer
134	99	82	71	RTD, mm of H_2O
27.0	25.0	27.1	27.0	Length, mm
0.19	0.17	0.16	0.16	Weight, g
2.6/Y	----	2.3/Y	4.0/Y	Fiber denier/shape
----	1.8/Y	----	----	Inner
----	----	----	----	Outer
				Tipping Paper
31	30	32	32	Length, mm
White	White	Cork	Cork	Color
50	65	81	78	Ventilation, %
				Filler
1.89	2.16	2.11	2.40	Total alkaloids, % (DWB)
7.1	7.1	7.2	7.5	Total red. sugars, % (DWB)
24	21	9	7	Reconstituted Tob., %
None	None	6	10	Expanded Stems, %
29	11	24	19	Expanded Tob., %
				Wt. of tob., g (Corrected
0.610	0.656	0.594	0.604	to 12.5% O.V.)
56.8	59.4	56.9	56.7	Rod Length, mm
0.216	0.222	0.210	0.214	Rod Density, g/cc
				Menthol, mg/cigt.
0.36	0.26	0.10	0.12	Smoke
2.8	2.3	2.7	2.5	Filler
1.4	0.9	1.3	1.4	Filter
49	31	12	15	[2]Menthol, µg/puff

*The FTC has determined that its present methodology does not accurately measure the smoke deliveries of cigarettes incorporating a "Barclay-type" filter.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 85 MM FILTER MENTHOL CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	BT6M Bright	KG6M Kent Golden Lights	ME6M Merit	NG6M Newport Lights
[1]Sales	0.06	0.03	0.27	0.25
Smoke				
FTC Tar, mg/cigt.	5.9	7.5	7.8	8.2
Nicotine, mg/cigt.	0.49	0.69	0.59	0.74
Puffs/cigt.	7.2	7.4	8.3	7.2
Filtration Eff., %	60	50	62	52
Filler Rod TPM, mg/cigt.	30.3	29.4	30.6	29.4
CO, mg/cigt.	7.9	6.7	9.6	8.1
Cigarette				
Total RTD, mm of H_2O	128	88	126	101
Static Burn. Time, min.	6.8	6.6	7.6	6.7
Length, mm	83.7	84.1	83.8	83.7
Circumference, mm	24.9	25.0	24.9	25.0
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.9	1.7	0.6	1.8
Porosity, sec.	14	20	15	20
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	121	77	123	83
Length, mm	27.1	25.0	27.2	25.1
Weight, g	0.18	0.14	0.18	0.15
Fiber denier/shape	2.5/Y	3.1/Y	2.6/Y	2.9/Y
Tipping Paper				
Length, mm	32	32	32	32
Color	White	White	Cork	Cork
Ventilation, %	38	42	34	34
Filler				
Total alkaloids, % (DWB)	1.92	2.12	1.89	2.16
Total red. sugars, % (DWB)	7.1	8.8	5.4	9.2
Reconstituted Tob., %	24	22	20	20
Expanded Stems, %	None	None	2	None
Expanded Tob., %	30	13	12	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.613	0.668	0.683	0.668
Rod Length, mm	56.6	59.1	56.6	58.6
Rod Density, g/cc	0.219	0.226	0.245	0.231
Menthol, mg/cigt.				
Smoke	0.44	0.31	0.53	0.34
Filler	3.1	2.0	3.0	2.1
Filter	1.6	0.9	1.7	0.9
[2]Menthol, µg/puff	59	42	63	45

[1]Estimated domestic sales in billions of cigarettes for 1984 - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 85 MM FILTER MENTHOL CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

VE6M Vantage	KI6M Kool Lights	SG6M Salem Lights	BA6M Belair	
0.33	0.22	2.49	0.48	[1]Sales
				Smoke
8.4	8.9	9.5	10.9	FTC Tar, mg/cigt.
0.66	0.71	0.71	0.86	Nicotine, mg/cigt.
8.0	7.5	7.7	7.6	Puffs/cigt.
55	55	58	50	Filtration Eff., %
31.3	28.6	29.6	29.5	Filler Rod TPM, mg/cigt.
9.3	10.0	12.1	9.6	CO, mg/cigt.
				Cigarette
106	124	128	105	Total RTD, mm of H_2O
6.9	7.0	7.0	6.9	Static Burn. Time, min.
83.7	83.7	83.8	83.6	Length, mm
25.0	25.0	24.9	25.1	Circumference, mm
				Paper
				Components
Cit.	Cit.	Cit.	Cit.	Type
1.4	0.2	0.8	0.2	Percent
20	14	14	14	Porosity, sec.
				Filter
CA	CA	CA	CA	Type
108	97	110	76	RTD, mm of H_2O
25.1	25.0	27.0	24.9	Length, mm
0.28	0.16	0.18	0.14	Weight, g
2.8/Y	2.5/Y	2.9/Y	2.8/Y	Fiber denier/shape
				Tipping Paper
30	30	31	30	Length, mm
Cork	Cork	White	White	Color
41	27	24	23	Ventilation, %
				Filler
1.86	2.12	1.89	2.10	Total alkaloids, % (DWB)
8.9	8.2	8.7	8.7	Total red. sugars, % (DWB)
23	12	24	9	Reconstituted Tob., %
None	8	None	14	Expanded Stems, %
17	11	16	11	Expanded Tob., %
				Wt. of tob., g (Corrected
0.693	0.666	0.672	0.672	to 12.5% O.V.)
58.6	58.7	56.8	58.7	Rod Length, mm
0.240	0.230	0.239	0.228	Rod Density, g/cc
				Menthol, mg/cigt.
0.30	0.34	0.53	0.34	Smoke
2.4	2.0	3.0	1.8	Filler
1.3	0.8	1.1	0.6	Filter
36	44	67	43	[2]Menthol, µg/puff

2050080858

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 85 MM FILTER MENTHOL CIGARETTES
(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	KM6M Kool Milds	PA6MB Players (Box)	DL6M Doral Lights	PM6M B & H Multifilter Menthol	SL6M Salem
[1]Sales	1.08	0.09	----	----	2.75
Smoke					
FTC Tar, mg/cigt.	11.1	11.9	12.1	13.2	14.5
Nicotine, mg/cigt.	0.81	0.84	0.75	0.88	0.98
Puffs/cigt.	7.1	8.4	6.7	8.7	7.9
Filtration Eff., %	51	50	51	46	49
Filler Rod TPM, mg/cigt.	29.4	32.4	30.2	31.9	32.0
CO, mg/cigt.	11.7	10.7	14.2	11.6	17.4
Cigarette					
Total RTD, mm of H_2O	119	108	144	92	134
Static Burn. Time, min.	6.8	8.5	7.9	8.1	7.4
Length, mm	83.9	82.9	83.8	84.0	83.7
Circumference, mm	25.1	25.1	25.0	25.1	25.0
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	0.2	0.6	0.4	0.6	1.6
Porosity, sec.	14	15	21	13	19
Filter					
Type	CA	CA	CA	----	CA
Inner	----	----	----	C-CA	----
Outer	----	----	----	CA-PL	----
RTD, mm of H_2O	80	85	87	72	79
Length, mm	25.0	27.0	27.0	25.0	21.0
Weight, g	0.15	0.17	0.17	0.34	0.13
Fiber denier/shape	3.0/Y	4.0/Y	3.2/Y	----	2.7/Y
Inner	----	----	----	3.2/I	----
Outer	----	----	----	3.4/Y	----
Tipping Paper					
Length, mm	30	32	31	30	25
Color	Cork	Cork	Cork	White	White
Ventilation, %	14	24	None	24	----
Filler					
Total alkaloids, % (DWB)	2.10	1.85	1.70	1.81	1.88
Total red. sugars, % (DWB)	8.1	7.0	8.2	6.8	8.5
Reconstituted Tob., %	12	20	28	21	24
Expanded Stems, %	10	2	None	2	None
Expanded Tob., %	11	12	37	12	16
Wt. of tob., g (Corrected to 12.5% O.V.)	0.659	0.687	0.593	0.725	0.747
Rod Length, mm	58.9	55.9	56.8	59.0	62.7
Rod Density, g/cc	0.222	0.245	0.210	0.246	0.240
Menthol, mg/cigt.					
Smoke	0.37	0.52	0.55	0.55	0.60
Filler	1.8	2.3	2.3	2.7	2.6
Filter	0.9	1.2	1.3	1.1	0.7
[2]Menthol, µg/puff	51	62	81	63	73

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

2050080859

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

FULL FLAVORED 85 MM FILTER MENTHOL CIGARETTES

(16 MG TAR OR MORE)

(Brands ranked according to FTC Tar, left to right)

	AL6M Alpine	MR6M Marlboro	KL6M Kool	NW6M Newport
[1]Sales	0.04	0.29	4.70	2.01
Smoke				
FTC Tar, mg/cigt.	15.5	15.9	16.2	16.5
Nicotine, mg/cigt.	1.10	1.08	1.09	1.25
Puffs/cigt.	9.0	9.0	7.4	8.0
Filtration Eff., %	45	46	41	46
Filler Rod TPM, mg/cigt.	32.8	33.2	29.7	32.4
CO, mg/cigt.	13.9	14.1	13.9	17.7
Cigarette				
Total RTD, mm of H_2O	118	114	107	119
Static Burn. Time, min.	8.2	8.0	7.0	7.6
Length, mm	83.6	83.8	83.8	84.2
Circumference, mm	24.8	24.8	25.1	25.1
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.5	0.6	0.2	0.7
Porosity, sec.	16	14	13	29
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	72	72	53	63
Length, mm	21.0	21.0	20.9	21.1
Weight, g	0.12	0.13	0.12	0.12
Fiber denier/shape	3.1/Y	3.2/Y	3.1/Y	3.0/Y
Tipping Paper				
Length, mm	26	25	26	25
Color	White	Cork	Cork	Cork
Ventilation, %	10	12	----	----
Filler				
Total alkaloids, % (DWB)	1.89	1.92	2.10	2.18
Total red. sugars, % (DWB)	6.9	6.5	8.5	9.1
Reconstituted Tob., %	23	21	12	20
Expanded Stems, %	2	2	12	None
Expanded Tob., %	12	12	11	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.755	0.746	0.707	0.719
Rod Length, mm	62.6	62.8	62.9	63.1
Rod Density, g/cc	0.246	0.242	0.224	0.230
Menthol, mg/cigt.				
Smoke	0.59	0.62	0.46	0.46
Filler	2.2	2.3	1.7	1.8
Filter	0.8	1.0	0.6	0.6
[2]Menthol, µg/puff	64	68	60	57

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

100-120mm PLAIN

2050080860

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 100 MM FILTER CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	CR8B Carlton (Box)	NO8 Now	KT8 Kent III	MU8 Merit Ultra Lights	CB8 Cambridge
[1]Sales	0.25	0.46	0.55	0.48	0.07
Smoke					
FTC Tar, mg/cigt.	1.1	3.4	4.8	5.2	5.4
Nicotine, mg/cigt.	0.14	0.32	0.52	0.44	0.52
Puffs/cigt.	8.0	8.1	8.4	10.2	9.7
Filtration Eff., %	70	66	68	68	67
Filler Rod TPM, mg/cigt.	22.6	26.5	28.8	29.3	31.0
CO, mg/cigt.	0.8	4.2	6.1	6.1	6.6
Cigarette					
Total RTD, mm of H_2O	83	106	112	109	126
Static Burn. Time, min.	5.3	5.7	5.8	7.2	7.1
Length, mm	98.5	98.6	98.5	99.2	99.2
Circumference, mm	24.4	25.0	25.0	24.9	24.8
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	0.9	1.6	1.6	0.5	0.4
Porosity, sec.	11	21	18	17	20
Filter					
Type	CA	CA	----	CA	CA
Inner	----	----	CA	----	----
Outer	----	----	CA	----	----
RTD, mm of H_2O	125	135	126	138	147
Length, mm	27.1	30.9	27.0	31.6	31.7
Weight, g	0.19	0.20	0.17	0.20	0.20
Fiber denier/shape	3.2/I	2.5/Y	----	2.8/Y	2.9/Y
Inner	----	----	1.8/Y	----	----
Outer	----	----	3.0/Y	----	----
Tipping Paper					
Length, mm	35	35	35	36	36
Color	White	White	White	Cork	White
Ventilation, %	81	66	55	59	54
Filler					
Total alkaloids, % (DWB)	2.17	2.22	2.48	2.02	2.22
Total red. sugars, % (DWB)	7.2	7.4	8.6	7.5	7.6
Reconstituted Tob., %	17	17	15	20	14
Expanded Stems, %	None	None	None	None	None
Expanded Tob., %	54	51	24	19	30
Wt. of tob., g (Corrected to 12.5% O.V.)	0.622	0.631	0.725	0.736	0.690
Rod Length, mm	71.4	67.7	71.5	67.6	67.5
Rod Density, g/cc	0.183	0.185	0.200	0.220	0.208

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080861

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 100 MM FILTER CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

VU8 Vantage Ultra Lights	WU8 Winston Ultra Lights	CR8 Carlton	BU8B Benson & Hedges DeLuxe Ultra Lights (Box)	BY8 Barclay*	
0.55	0.44	0.75	0.89	0.25	[1]Sales
					Smoke
5.5	5.8	5.9	6.3	* 2.9	FTC Tar, mg/cigt.
0.44	0.47	0.50	0.48	* 0.28	Nicotine, mg/cigt.
8.9	8.9	8.0	8.9	* 10.2	Puffs/cigt.
66	68	60	59	55	Filtration Eff., %
28.4	27.1	24.6	27.4	27.3	Filler Rod TPM, mg/cigt.
7.4	8.5	6.9	5.7	* 2.2	CO, mg/cigt.
					Cigarette
124	131	128	110	27	Total RTD, mm of H_2O
6.6	6.5	5.3	6.7	6.4	Static Burn. Time, min.
98.6	98.7	99.6	98.1	98.9	Length, mm
24.9	25.0	24.4	24.0	24.9	Circumference, mm
					Paper
					Components
Cit.	Cit.	Cit.	Cit.	Cit.	Type
1.6	0.7	0.7	2.2	0.4	Percent
20	13	20	13	8	Porosity, sec.
					Filter
CA	CA	CA	CA	CA	Type
----	----	----	----	----	Inner
----	----	----	----	----	Outer
151	152	126	124	63	RTD, mm of H_2O
30.9	31.0	27.1	31.6	27.0	Length, mm
0.22	0.22	0.20	0.18	0.15	Weight, g
2.3/Y	2.5/Y	3.4/I	2.8/Y	3.8/Y	Fiber denier/shape
----	----	----	----	----	Inner
----	----	----	----	----	Outer
					Tipping Paper
35	35	32	36	36	Length, mm
White	Cork	White	White	Cork	Color
53	48	48	51	77	Ventilation, %
					Filler
1.94	1.86	2.14	1.92	1.99	Total alkaloids, % (DWB)
8.1	7.9	7.6	7.7	8.2	Total red. sugars, % (DWB)
23	23	17	20	(17)	Reconstituted Tob., %
None	None	None	2	(6)	Expanded Stems, %
25	21	54	20	(12)	Expanded Tob., %
					Wt. of tob., g (Corrected
0.733	0.726	0.629	0.716	(0.854)	to 12.5% O.V.)
67.7	67.7	72.5	66.5	71.9	Rod Length, mm
0.217	0.216	0.183	0.235	(0.237)	Rod Density, g/cc

*The FTC has determined that its present methodology does not accurately measure the smoke deliveries of cigarettes incorporating a "Barclay-type" filter.

2050080862

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	TU8 True	KG8 Kent Golden Lights	VE8 Vantage	ME8 Merit	SN8 Satin
[1]Sales	0.41	0.52	0.93	0.24	0.16
Smoke					
FTC Tar, mg/cigt.	8.4	8.8	9.2	10.2	10.3
Nicotine, mg/cigt.	0.81	0.84	0.71	0.80	0.93
Puffs/cigt.	9.6	9.3	9.7	9.8	9.0
Filtration Eff., %	53	53	58	59	53
Filler Rod TPM, mg/cigt.	29.9	28.4	30.0	29.6	28.0
CO, mg/cigt.	7.2	8.7	11.6	12.2	11.4
Cigarette					
Total RTD, mm of H_2O	54	102	129	128	111
Static Burn. Time, min.	6.4	6.5	7.0	7.2	6.3
Length, mm	98.8	98.6	99.2	99.3	98.8
Circumference, mm	25.1	24.9	25.0	24.8	25.0
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	1.8	1.8	0.9	1.0	1.8
Porosity, sec.	18	18	14	12	18
Filter					
Type	----	CA	CA	CA	CA
Inner	CA	----	----	----	----
Outer	PL	----	----	----	----
RTD, mm of H_2O	73	79	126	108	85
Length, mm	27.0	26.9	27.5	31.4	26.9
Weight, g	0.16	0.15	0.29	0.19	0.16
Fiber denier/shape	----	3.1/Y	2.6/Y	2.6/Y	2.6/Y
Inner	1.8/Y	----	----	----	----
Outer	----	----	----	----	----
Tipping Paper					
Length, mm	32	35	34	36	32
Color	White	White	Cork	Cork	White
Ventilation, %	54	41	36	27	32
Filler					
Total alkaloids, % (DWB)	2.20	2.19	1.79	1.96	2.14
Total red. sugars, % (DWB)	6.9	8.9	8.3	7.3	8.3
Reconstituted Tob., %	21	22	23	20	22
Expanded Stems, %	None	None	None	2	None
Expanded Tob., %	11	12	17	12	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.813	0.808	0.832	0.808	0.809
Rod Length, mm	71.8	71.7	71.7	67.9	71.9
Rod Density, g/cc	0.226	0.230	0.235	0.244	0.227

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080863

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

RG8 Raleigh Lights	CL8 Camel Lights	VL8 Viceroy Lights	WL8 Winston Lights	BL8 B & H Lights	
0.15	0.36	0.10	1.86	0.89	[1]Sales
					Smoke
10.5	10.9	11.0	11.1	11.1	FTC Tar, mg/cigt.
0.79	0.81	0.86	0.83	0.84	Nicotine, mg/cigt.
8.8	10.2	8.8	10.1	10.4	Puffs/cigt.
52	59	55	57	60	Filtration Eff., %
30.1	29.4	28.4	29.2	32.0	Filler Rod TPM, mg/cigt.
10.6	12.0	11.8	12.4	12.2	CO, mg/cigt.
					Cigarette
120	120	128	123	122	Total RTD, mm of H_2O
7.1	7.3	7.0	7.5	7.7	Static Burn. Time, min.
98.6	98.8	98.7	98.7	99.2	Length, mm
25.0	25.0	24.9	24.9	24.8	Circumference, mm
					Paper
					Components
Cit.	Cit.	Cit.	Cit.	Cit.	Type
0.3	0.4	0.3	0.5	0.6	Percent
13	14	13	13	16	Porosity, sec.
					Filter
CA	CA	CA	CA	CA	Type
----	----	----	----	----	Inner
----	----	----	----	----	Outer
90	99	88	101	107	RTD, mm of H_2O
26.9	30.9	26.8	30.9	31.6	Length, mm
0.16	0.19	0.16	0.18	0.19	Weight, g
3.2/Y	2.6/Y	3.0/Y	2.6/Y	2.6/Y	Fiber denier/shape
----	----	----	----	----	Inner
----	----	----	----	----	Outer
					Tipping Paper
36	35	36	35	36	Length, mm
Cork	Cork	Cork	Cork	White	Color
28	31	21	29	31	Ventilation, %
					Filler
2.04	1.78	2.04	1.71	1.97	Total alkaloids, % (DWB)
9.1	8.0	8.6	7.9	7.5	Total red. sugars, % (DWB)
12	27	12	23	20	Reconstituted Tob., %
8	None	10	None	2	Expanded Stems, %
12	17	11	16	12	Expanded Tob., %
					Wt. of tob., g (Corrected
0.831	0.817	0.833	0.826	0.812	to 12.5% O.V.)
71.7	67.9	71.9	67.8	67.6	Rod Length, mm
0.233	0.243	0.234	0.246	0.247	Rod Density, g/cc

2050080864

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	ML8 Marlboro Lights	ML8B Marlboro Lights (Box)	SE8B Sterling Special Blend (Box)	LM8 L & M	DL8 Doral Lights
[1]Sales	2.30	0.68	0.20	0.13	----
Smoke					
FTC Tar, mg/cigt.	11.2	11.2	12.0	12.1	12.4
Nicotine, mg/cigt.	0.80	0.87	0.87	0.94	0.84
Puffs/cigt.	10.3	10.2	10.2	8.0	9.0
Filtration Eff., %	59	59	53	47	50
Filler Rod TPM, mg/cigt.	32.5	32.6	31.5	24.7	30.3
CO, mg/cigt.	12.7	11.6	11.7	12.9	13.6
Cigarette					
Total RTD, mm of H_2O	130	131	122	125	117
Static Burn. Time, min.	7.8	7.5	7.6	6.5	7.2
Length, mm	99.2	98.5	93.8	98.6	99.0
Circumference, mm	24.9	24.8	24.9	24.7	25.0
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	0.4	0.4	0.4	0.7	0.3
Porosity, sec.	14	16	15	6*	23
Filter					
Type	CA	CA	CA	CA	CA
RTD, mm of H_2O	111	109	99	69	81
Length, mm	31.4	31.6	27.1	29.9	30.9
Weight, g	0.19	0.19	0.18	0.17	0.18
Fiber denier/shape	2.8/Y	3.0/Y	3.6/Y	3.6/Y	3.5/Y
Tipping Paper					
Length, mm	36	36	31	35	35
Color	White	White	Cork	White	Cork
Ventilation, %	27	25	29	----	19
Filler					
Total alkaloids, % (DWB)	1.94	1.96	1.72	1.97	1.67
Total red. sugars, % (DWB)	8.1	8.2	8.0	9.8	8.7
Reconstituted Tob., %	21	21	26	15	28
Expanded Stems, %	2	2	None	6	None
Expanded Tob., %	12	12	14	30	37
Wt. of tob., g (Corrected to 12.5% O.V.)	0.813	0.804	0.834	0.702	0.709
Rod Length, mm	67.8	66.9	66.7	68.7	68.1
Rod Density, g/cc	0.247	0.246	0.253	0.209	0.209

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

*These cigarette papers are perforated.

2050080865

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER CIGARETTES
(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

KN8 Kent	PA8B Players (Box)	PL8 Pall Mall	VC8 Viceroy	RL8 Raleigh	
0.64	0.07	0.88	0.26	0.43	[1]Sales
					Smoke
13.7	13.8	15.3	15.6	15.9	FTC Tar, mg/cigt.
1.13	1.00	1.16	1.08	1.10	Nicotine, mg/cigt.
10.0	9.0	9.0	9.0	8.8	Puffs/cigt.
42	48	45	47	49	Filtration Eff., %
29.5	29.5	26.8	28.6	27.5	Filler Rod TPM, mg/cigt.
12.4	13.2	16.2	14.5	16.4	CO, mg/cigt.
					Cigarette
87	114	128	114	117	Total RTD, mm of H_2O
7.0	7.2	6.7	6.8	6.8	Static Burn. Time, min.
98.8	98.1	99.5	98.8	98.8	Length, mm
24.8	24.2	24.4	25.0	25.0	Circumference, mm
					Paper
					Components
Cit.	Cit.	Cit.	Cit.	Cit.	Type
0.6	2.0	0.8	0.2	0.4	Percent
18	13	12	13	13	Porosity, sec.
					Filter
CA	CA	CA	CA	CA	Type
56	76	65	64	63	RTD, mm of H_2O
27.0	31.5	26.9	26.8	26.8	Length, mm
0.16	0.18	0.16	0.16	0.16	Weight, g
4.6/Y	4.6/Y	4.2/Y	4.1/Y	3.8/Y	Fiber denier/shape
					Tipping Paper
32	36	32	32	32	Length, mm
White	Cork	White	Cork	Cork	Color
29	19	----	10	----	Ventilation, %
					Filler
1.95	1.86	2.08	2.03	1.93	Total alkaloids, % (DWB)
10.1	7.4	10.6	9.8	8.5	Total red. sugars, % (DWB)
19	20	16	12	12	Reconstituted Tob., %
None	2	4	10	12	Expanded Stems, %
12	12	9	11	None	Expanded Tob., %
0.813	0.753	0.851	0.811	0.847	Wt. of tob., g (Corrected to 12.5% O.V.)
71.8	66.6	72.6	72.0	72.0	Rod Length, mm
0.232	0.244	0.247	0.230	0.236	Rod Density, g/cc

2050080866

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

FULL FLAVORED 100 MM FILTER CIGARETTES

(16 MG TAR OR MORE)

(Brands ranked according to FTC Tar, left to right)

	WN8 Winston	BH8 B & H	MR8 Marlboro
[1]Sales	2.43	1.39	2.41
Smoke			
FTC Tar, mg/cigt.	16.2	16.4	16.8
Nicotine, mg/cigt.	1.02	1.18	1.18
Puffs/cigt.	10.4	10.6	10.6
Filtration Eff., %	51	50	49
Filler Rod TPM, mg/cigt.	31.8	31.6	31.8
CO, mg/cigt.	17.0	14.9	15.0
Cigarette			
Total RTD, mm of H_2O	136	120	120
Static Burn. Time, min.	7.6	7.7	7.6
Length, mm	99.2	99.4	99.2
Circumference, mm	25.0	24.8	24.8
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.5	0.5	0.6
Porosity, sec.	20	12	12
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	78	74	74
Length, mm	27.4	27.5	27.6
Weight, g	0.17	0.17	0.17
Fiber denier/shape	3.8/Y	3.6/Y	3.7/Y
Tipping Paper			
Length, mm	32	32	31.5
Color	Cork	White	Cork
Ventilation, %	9	12	14
Filler			
Total alkaloids, % (DWB)	1.62	1.94	1.92
Total red. sugars, % (DWB)	7.9	7.0	7.9
Reconstituted Tob., %	23	20	21
Expanded Stems, %	None	2	2
Expanded Tob., %	16	12	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.875	0.870	0.859
Rod Length, mm	71.8	71.9	71.6
Rod Density, g/cc	0.248	0.249	0.247

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080867

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

120 MM FILTER CIGARETTES

(Brands ranked according to FTC Tar, left to right)

	CR9 Carlton	SR9B Saratoga (Box)	M09 More
[1]Sales	0.30	0.26	0.75
Smoke			
FTC Tar, mg/cigt.	7.7	14.9	15.8
Nicotine, mg/cigt.	0.70	1.06	1.15
Puffs/cigt.	10.2	12.7	12.6
Filtration Eff., %	44	48	49
Filler Rod TPM, mg/cigt.	22.4	26.7	35.1
CO, mg/cigt.	5.6	14.4	18.8
Cigarette			
Total RTD, mm of H_2O	93	160	180
Static Burn. Time, min.	5.6	7.1	8.2
Length, mm	119.5	119.7	119.6
Circumference, mm	22.3	22.0	21.2
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.8	0.6	1.7
Color	White	White	Brown
Porosity, sec.	12	16	36
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	87	114	126
Length, mm	30.1	30.1	35.0
Weight, g	0.15	0.14	0.16
Fiber denier/shape	4.8/Y	3.2/Y	4.7/Y
Tipping Paper			
Length, mm	35	35	39
Color	White	Cork	Brown
Ventilation, %	58	25	30
Filler			
Total alkaloids, % (DWB)	2.17	1.88	1.87
Total red. sugars, % (DWB)	8.6	7.3	8.4
Reconstituted Tob., %	17	22	24
Expanded Stems, %	None	2	None
Expanded Tob., %	36	12	17
Wt. of tob., g (Corrected to 12.5% O.V.)	0.718	0.862	0.772
Rod Length, mm	89.5	89.6	84.6
Rod Density, g/cc	0.204	0.251	0.256

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

100 - 120mm MENTHOL

2050080868

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 100 MM FILTER MENTHOL CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	N08M Now	VU8M Vantage Ultra Lights	SU8M Salem Ultra Lights	MU8M Merit Ultra Lights
[1]Sales	0.26	0.05	0.54	0.12
Smoke				
FTC Tar, mg/cigt.	3.5	5.2	5.7	5.8
Nicotine, mg/cigt.	0.30	0.45	0.46	0.45
Puffs/cigt.	7.6	8.4	9.8	10.0
Filtration Eff., %	65	66	67	68
Filler Rod TPM, mg/cigt.	25.6	28.0	30.1	26.2
CO, mg/cigt.	4.1	6.4	7.1	6.0
Cigarette				
Total RTD, mm of H_2O	108	136	121	114
Static Burn. Time, min.	5.8	6.3	6.9	6.6
Length, mm	99.0	98.7	99.2	99.3
Circumference, mm	24.9	24.9	24.9	24.8
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	1.6	0.8	1.5	1.3
Porosity, sec.	20	14	21	14
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	138	152	151	139
Length, mm	31.0	31.0	31.1	31.5
Weight, g	0.21	0.23	0.22	0.21
Fiber denier/shape	2.9/Y	3.0/Y	2.5/Y	3.0/Y
Tipping Paper				
Length, mm	35	35	35	36
Color	White	White	White	Cork
Ventilation, %	65	49	54	56
Filler				
Total alkaloids, % (DWB)	2.25	2.06	1.84	1.98
Total red. sugars, % (DWB)	5.6	6.5	9.4	6.2
Reconstituted Tob., %	17	23	24	20
Expanded Stems, %	None	None	None	None
Expanded Tob., %	51	37	16	19
Wt. of tob., g (Corrected to 12.5% O.V.)	0.616	0.677	0.793	0.727
Rod Length, mm	68.0	67.7	68.1	67.8
Rod Density, g/cc	0.182	0.204	0.237	0.220
Menthol, mg/cigt.				
Smoke	0.43	0.35	0.40	0.48
Filler	5.2	3.9	4.1	4.0
Filter	3.0	1.8	1.3	2.4
[2]Menthol, µg/puff	55	40	40	50

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

2050080869

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

ULTRA LOW TAR 100 MM FILTER MENTHOL CIGARETTES

(6 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

BU8MB Benson & Hedges DeLuxe Ultra Lights (Box)	BY8M Barclay*	KU8M Kool Ultra*	
0.60	0.07	0.15	[1]Sales
			Smoke
5.8	* 3.5	* 5.3	FTC Tar, mg/cigt.
0.46	* 0.30	* 0.53	Nicotine, mg/cigt.
9.0	* 9.5	* 8.8	Puffs/cigt.
60	57	54	Filtration Eff., %
28.5	27.2	28.4	Filler Rod TPM, mg/cigt.
5.6	* 1.9	* 3.1	CO, mg/cigt.
			Cigarette
107	30	39	Total RTD, mm of H_2O
6.5	6.2	6.0	Static Burn. Time, min.
98.4	99.0	99.0	Length, mm
24.1	24.8	24.9	Circumference, mm
			Paper
			Components
Cit.	Cit.	Cit.	Type
2.2	0.4	0.4	Percent
12	9	13	Porosity, sec.
			Filter
CA	CA	CA	Type
125	66	69	RTD, mm of H_2O
31.5	27.0	27.0	Length, mm
0.18	0.15	0.15	Weight, g
3.0/Y	4.0/Y	4.0/Y	Fiber denier/shape
			Tipping Paper
36	36	36	Length, mm
White	Cork	Cork	Color
54	76	67	Ventilation, %
			Filler
1.89	2.11	2.42	Total alkaloids, % (DWB)
8.1	8.0	7.8	Total red. sugars, % (DWB)
20	9	7	Reconstituted Tob., %
2	6	10	Expanded Stems, %
20	24	19	Expanded Tob., %
			Wt. of tob., g (Corrected
0.716	0.757	0.767	to 12.5% O.V.)
66.9	72.0	72.0	Rod Length, mm
0.234	0.215	0.215	Rod Density, g/cc
			Menthol, mg/cigt.
0.49	0.17	0.27	Smoke
3.9	3.8	3.0	Filler
1.8	1.3	1.3	Filter
53	18	29	[2]Menthol, µg/puff

*The FTC has determined that its present methodology does not accurately measure the smoke deliveries of cigarettes incorporating a "Barclay-type" filter.

2050080870

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER MENTHOL CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	BT8M Bright	TU8M True	KG8M Kent Golden Lights	NG8M Newport Lights
[1]Sales	0.15	0.22	0.08	0.07
Smoke				
FTC Tar, mg/cigt.	6.7	8.0	8.2	8.3
Nicotine, mg/cigt.	0.56	0.75	0.75	0.75
Puffs/cigt.	9.0	9.2	9.3	9.2
Filtration Eff., %	64	51	53	54
Filler Rod TPM, mg/cigt.	30.8	29.1	29.2	27.9
CO, mg/cigt.	9.6	7.5	7.9	9.0
Cigarette				
Total RTD, mm of H_2O	128	54	97	99
Static Burn. Time, min.	6.8	6.3	6.5	6.9
Length, mm	98.8	98.7	98.8	98.7
Circumference, mm	24.9	25.0	25.0	25.0
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	1.4	1.5	1.6	1.6
Porosity, sec.	22	19	21	18
Filter				
Type	CA	----	CA	CA
Inner	----	CA	----	----
Outer	----	PL	----	----
RTD, mm of H_2O	126	76	85	85
Length, mm	31.0	26.9	26.9	27.0
Weight, g	0.19	0.16	0.16	0.16
Fiber denier/shape	2.8/Y	----	3.0/Y	2.8/Y
Inner	----	1.8/Y	----	----
Outer	----	----	----	----
Tipping paper				
Length, mm	36	32	35	35
Color	White	White	White	Cork
Ventilation, %	42	54	45	44
Filler				
Total alkaloids, % (DWB)	1.91	2.17	2.11	2.14
Total red. sugars, % (DWB)	7.6	7.1	9.0	8.8
Reconstituted Tob., %	24	21	22	20
Expanded Stems, %	None	None	None	None
Expanded Tob., %	30	11	13	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.748	0.798	0.809	0.816
Rod Length, mm	67.8	71.8	71.9	71.7
Rod Density, g/cc	0.222	0.223	0.227	0.229
Menthol, mg/cigt.				
Smoke	0.46	0.40	0.38	0.36
Filler	3.6	3.0	2.5	2.6
Filter	1.6	0.9	1.1	1.0
[2]Menthol, µg/puff	51	43	42	40

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

2050080871

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER MENTHOL CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

VE8M Vantage	SG8M Salem Lights	BA8M Belair	ME8M Merit	
0.08	2.02	0.41	0.24	[1]Sales
				Smoke
9.1	9.4	9.6	9.7	FTC Tar, mg/cigt.
0.69	0.71	0.71	0.76	Nicotine, mg/cigt.
9.6	9.4	8.6	10.2	Puffs/cigt.
61	61	49	59	Filtration Eff., %
29.7	29.1	27.1	30.0	Filler Rod TPM, mg/cigt.
11.4	12.1	9.1	11.4	CO, mg/cigt.
				Cigarette
129	129	111	121	Total RTD, mm of H_2O
7.0	7.1	6.6	7.4	Static Burn. Time, min.
98.9	98.7	98.7	99.6	Length, mm
25.0	24.9	25.0	24.8	Circumference, mm
				Paper
				Components
Cit.	Cit.	Cit.	Cit.	Type
0.8	0.7	0.3	0.6	Percent
14	14	14	14	Porosity, sec.
				Filter
CA	CA	CA	CA	Type
----	----	----	----	Inner
----	----	----	----	Outer
132	122	78	111	RTD, mm of H_2O
31.2	31.0	26.9	31.6	Length, mm
0.34	0.19	0.16	0.19	Weight, g
2.5/Y	2.4/Y	3.6/Y	3.2/Y	Fiber denier/shape
----	----	----	----	Inner
----	----	----	----	Outer
				Tipping Paper
35	35	36	36	Length, mm
Cork	White	White	Cork	Color
34	32	31	33	Ventilation, %
				Filler
1.75	1.93	1.90	1.89	Total alkaloids, % (DWB)
8.0	9.0	8.4	5.8	Total red. sugars, % (DWB)
23	24	9	20	Reconstituted Tob., %
None	None	14	20	Expanded Stems, %
17	16	11	12	Expanded Tob., %
				Wt. of tob., g (Corrected
0.794	0.799	0.812	0.804	to 12.5% O.V.)
67.7	67.7	71.8	68.0	Rod Length, mm
0.237	0.239	0.227	0.242	Rod Density, g/cc
				Menthol, mg/cigt.
0.41	0.47	0.35	0.58	Smoke
3.8	3.6	2.6	3.4	Filler
1.5	1.0	1.0	1.7	Filter
42	48	40	57	[2]Menthol, µg/puff

2050080872

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER MENTHOL CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

	BL8M B & H Lights	SN8M Satin	KI8M Kool Lights
[1]Sales	0.89	0.10	0.22
Smoke			
FTC Tar, mg/cigt.	10.0	10.1	10.3
Nicotine, mg/cigt.	0.78	0.85	0.82
Puffs/cigt.	10.5	8.9	8.9
Filtration Eff., %	59	53	49
Filler Rod TPM, mg/cigt.	31.5	27.8	30.4
CO, mg/cigt.	11.1	11.6	10.4
Cigarette			
Total RTD, mm of H_2O	122	114	104
Static Burn. Time, min.	7.8	6.6	7.0
Length, mm	99.5	98.7	98.8
Circumference, mm	24.8	25.0	24.9
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.7	1.9	0.2
Porosity, sec.	15	17	14
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	114	86	77
Length, mm	31.5	27.0	26.9
Weight, g	0.19	0.16	0.16
Fiber denier/shape	2.6/Y	2.6/Y	3.2/Y
Tipping Paper			
Length, mm	36	32	36
Color	White	White	Cork
Ventilation, %	35	31	35
Filler			
Total alkaloids, % (DWB)	1.94	2.13	2.14
Total red. sugars, % (DWB)	5.8	8.6	8.6
Reconstituted Tob., %	20	22	12
Expanded Stems, %	2	None	8
Expanded Tob., %	12	12	11
Wt. of tob., g (Corrected to 12.5% O.V.)	0.807	0.806	0.806
Rod Length, mm	68.0	71.7	71.9
Rod Density, g/cc	0.243	0.227	0.227
Menthol, mg/cigt.			
Smoke	0.67	0.38	0.37
Filler	3.9	2.3	2.3
Filter	1.7	0.9	0.9
[2]Menthol, µg/puff	64	42	41

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

LOW TAR 100 MM FILTER MENTHOL CIGARETTES

(15 MG TAR OR LESS)

(Brands ranked according to FTC Tar, left to right)

SE8MB Sterling Special Blend (Box)	DL8M Doral Lights	PA8MB Players (Box)	KL8M Kool	
0.13	----	0.05	1.62	[1]Sales
				Smoke
11.8	12.8	13.6	13.6	FTC Tar, mg/cigt.
0.88	0.86	0.91	0.94	Nicotine, mg/cigt.
10.4	8.7	9.1	8.1	Puffs/cigt.
53	49	48	51	Filtration Eff., %
32.4	30.4	28.9	26.1	Filler Rod TPM, mg/cigt.
10.8	13.1	14.0	16.1	CO, mg/cigt.
				Cigarette
122	117	110	130	Total RTD, mm of H_2O
7.8	7.0	7.0	6.3	Static Burn. Time, min.
93.8	98.9	98.4	99.0	Length, mm
24.9	24.9	24.1	25.0	Circumference, mm
				Paper
				Components
Cit.	Cit.	Cit.	Cit.	Type
0.4	0.4	1.9	0.5	Percent
14	21	14	13	Porosity, sec.
				Filter
CA	CA	CA	CA	Type
101	80	75	64	RTD, mm of H_2O
27.0	31.0	31.6	26.9	Length, mm
0.18	0.19	0.18	0.16	Weight, g
3.6/Y	3.6/Y	4.4/Y	3.8/Y	Fiber denier/shape
				Tipping Paper
31	35	36	32	Length, mm
Cork	Cork	Cork	Cork	Color
33	18	23	----	Ventilation, %
				Filler
1.79	1.68	1.85	1.98	Total alkaloids, % (DWB)
8.7	8.4	7.6	8.5	Total red. sugars, % (DWB)
26	28	20	12	Reconstituted Tob., %
None	None	2	12	Expanded Stems, %
14	37	12	11	Expanded Tob., %
				Wt. of tob., g (Corrected
0.824	0.703	0.747	0.804	to 12.5% O.V.)
66.8	67.9	66.8	72.1	Rod Length, mm
0.251	0.211	0.246	0.224	Rod Density, g/cc
				Menthol, mg/cigt.
0.86	0.62	0.67	0.39	Smoke
4.7	3.0	2.9	2.1	Filler
1.3	1.1	1.2	0.8	Filter
80	70	73	46	[2]Menthol, µg/puff

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

FULL FLAVORED 100 MM FILTER MENTHOL CIGARETTES

(16 MG TAR OR MORE)

(Brands ranked according to FTC Tar, left to right)

	SL8M Salem	BH8M B & H	NW8M Newport
[1]Sales	1.76	1.47	0.60
Smoke			
FTC Tar, mg/cigt.	15.4	16.6	18.7
Nicotine, mg/cigt.	1.16	1.20	1.44
Puffs/cigt.	10.2	10.4	9.1
Filtration Eff., %	47	50	43
Filler Rod TPM, mg/cigt.	30.6	31.6	31.0
CO, mg/cigt.	16.0	15.9	19.3
Cigarette			
Total RTD, mm of H_2O	114	126	112
Static Burn. Time, min.	7.5	7.8	7.3
Length, mm	99.5	99.4	98.8
Circumference, mm	24.9	24.8	24.9
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.8	0.6	0.7
Porosity, sec.	14	14	31
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	71	78	52
Length, mm	27.5	27.4	26.9
Weight, g	0.16	0.17	0.16
Fiber denier/shape	3.5/Y	3.7/Y	4.6/Y
Tipping Paper			
Length, mm	31	32	32
Color	White	White	Cork
Ventilation, %	16	11	----
Filler			
Total alkaloids, % (DWB)	1.89	1.98	2.15
Total red. sugars, % (DWB)	8.8	8.1	9.4
Reconstituted Tob., %	24	20	20
Expanded Stems, %	None	2	None
Expanded Tob., %	16	12	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.871	0.864	0.807
Rod Length, mm	72.0	72.0	71.9
Rod Density, g/cc	0.245	0.248	0.229
Menthol, mg/cigt.			
Smoke	0.58	0.68	0.51
Filler	2.8	3.1	2.0
Filter	0.9	1.0	0.8
[2]Menthol, µg/puff	56	65	55

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

2050080875

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

120 MM FILTER MENTHOL CIGARETTES

(Brands ranked according to FTC Tar, left to right)

	CR9M Carlton	SR9MB Saratoga (Box)	MO9M More
[1]Sales	0.30	0.12	0.64
Smoke			
FTC Tar, mg/cigt.	7.1	14.5	15.6
Nicotine, mg/cigt.	0.65	1.12	1.20
Puffs/cigt.	9.7	12.9	12.7
Filtration Eff., %	44	50	49
Filler Rod TPM, mg/cigt.	23.3	28.0	34.5
CO, mg/cigt.	4.8	13.8	19.0
Cigarette			
Total RTD, mm of H_2O	91	159	174
Static Burn. Time, min.	5.4	7.3	8.4
Length, mm	119.9	119.8	119.7
Circumference, mm	22.2	22.0	21.1
Paper			
Components			
Type	Cit.	Cit.	Cit.
Percent	0.8	0.6	1.6
Color	White	White	Brown
Porosity, sec.	12	16	36
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	87	114	122
Length, mm	30.0	30.1	35.0
Weight, g	0.14	0.14	0.16
Fiber denier/shape	4.8/Y	3.0/Y	4.9/Y
Tipping Paper			
Length, mm	35	35	39
Color	White	Cork	Brown
Ventilation, %	58	28	32
Filler			
Total alkaloids, % (DWB)	2.19	1.90	2.01
Total red. sugars, % (DWB)	8.2	6.6	8.9
Reconstituted Tob., %	17	22	24
Expanded Stems, %	None	2	None
Expanded Tob., %	36	12	17
Wt. of tob., g (Corrected to 12.5% O.V.)	0.724	0.862	0.778
Rod Length, mm	89.9	89.7	84.7
Rod Density, g/cc	0.205	0.252	0.260
Menthol, mg/cigt.			
Smoke	0.54	0.69	0.68
Filler	4.4	3.3	3.2
Filter	1.0	1.2	0.9
[2]Menthol, µg/puff	52	53	52

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

100mm SLIMS

2050080876

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

100 MM FILTER SLIM CIGARETTES

(Brands ranked according to FTC Tar, left to right)

	VG8B Virginia Slims Lights (Box)	MG8B More Lights (Box)	✓ T8 Silva Thins	✓ VA8 Virginia Slims
[1]Sales	0.91	0.29	0.09	0.78
Smoke				
FTC Tar, mg/cigt.	9.0	9.1	10.9	15.0
Nicotine, mg/cigt.	0.69	0.78	0.99	1.04
Puffs/cigt.	9.5	9.7	9.3	9.8
Filtration Eff., %	54	50	41	45
Filler Rod TPM, mg/cigt.	28.6	27.4	23.6	29.5
CO, mg/cigt.	8.5	9.1	9.7	13.4
Cigarette				
Total RTD, mm of H_2O	115	107	129	130
Static Burn. Time, min.	7.2	7.3	6.4	7.2
Length, mm	98.3	97.6	99.6	99.4
Circumference, mm	23.1	22.6	22.3	23.0
Paper				
Components				
Type	Cit.	Cit.	Cit.	Cit.
Percent	0.5	1.2	0.8	0.5
Porosity, sec.	13	13	12	13
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	109	101	80	82
Length, mm	31.5	31.0	27.0	27.5
Weight, g	0.16	0.15	0.14	0.14
Fiber denier/shape	3.1/Y	3.4/Y	4.8/Y	3.5/Y
Tipping Paper				
Length, mm	36	35	32	32
Color	White	Deep Tan	White	White
Ventilation, %	39	47	28	16
Filler				
Total alkaloids, % (DWB)	1.88	1.88	2.17	1.86
Total red. sugars, % (DWB)	6.2	8.0	9.6	6.0
Reconstituted Tob., %	22	24	9	22
Expanded Stems, %	2	None	13	2
Expanded Tob., %	12	17	16	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.687	0.683	0.712	0.739
Rod Length, mm	66.8	66.6	72.6	71.9
Rod Density, g/cc	0.244	0.252	0.249	0.246

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

2050080877

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

100 MM FILTER SLIM MENTHOL CIGARETTES

(Brands ranked according to FTC Tar, left to right)

	Salem Slim Lights (Box) SS8MB	Virginia Slims Lights (Box) VG8MB	More Lights (Box) MG8MB	Silva Thins ST8M	Virginia Slims VA8M
[1]Sales	0.49	1.06	0.19	0.03	0.66
Smoke					
FTC Tar, mg/cigt.	7.7	8.9	9.1	10.9	14.8
Nicotine, mg/cigt.	0.63	0.67	0.73	0.94	1.06
Puffs/cigt.	8.6	9.6	9.5	9.3	9.7
Filtration Eff., %	49	54	49	40	43
Filler Rod TPM, mg/cigt.	25.2	27.2	25.8	25.5	28.1
CO, mg/cigt.	8.2	9.1	8.6	9.0	13.2
Cigarette					
Total RTD, mm of H_2O	113	124	110	111	124
Static Burn. Time, min.	6.3	7.1	7.2	6.5	7.4
Length, mm	98.0	98.6	98.0	99.6	99.5
Circumference, mm	22.6	23.1	22.6	22.3	23.0
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	0.7	0.6	1.1	0.8	0.6
Porosity, sec.	14	13	14	12	13
Filter					
Type	CA	CA	CA	CA	CA
RTD, mm of H_2O	101	120	101	83	79
Length, mm	31.1	31.6	31.0	26.9	27.5
Weight, g	0.15	0.16	0.15	0.14	0.13
Fiber denier/shape	3.4/Y	3.2/Y	3.2/Y	4.7/Y	3.4/Y
Tipping Paper					
Length, mm	35	36	35	32	32
Color	White	White	Deep Tan	White	White
Ventilation, %	47	40	45	36	19
Filler					
Total alkaloids, % (DWB)	1.93	1.90	1.75	2.16	1.88
Total red. sugars, % (DWB)	8.7	6.4	8.4	7.6	6.2
Reconstituted Tob., %	24	22	24	20	22
Expanded Stems, %	None	2	None	4	2
Expanded Tob., %	25	12	17	9	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.638	0.690	0.680	0.708	0.740
Rod Length, mm	66.9	67.0	67.0	72.7	72.0
Rod Density, g/cc	0.236	0.246	0.250	0.250	0.246
Menthol, mg/cigt.					
Smoke	0.42	0.62	0.65	0.51	0.67
Filler	2.8	3.2	3.8	2.7	2.7
Filter	1.0	1.6	1.2	0.8	1.1
[2]Menthol, µg/puff	47	65	69	55	68

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]These values were calculated by dividing the total deliveries (in micrograms) by number of puffs.

CHARCOAL

2050080878

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

85 MM CHARCOAL FILTER CIGARETTES

(Brands ranked according to FTC Tar, left to right)

	TG6 Tareyton Lights	PM6 B & H Multifilter	LG6 Lark Lights	LR6 Lark	TR6 Tareyton
[1]Sales	0.07	0.07	0.08	0.08	0.62
Smoke					
FTC Tar, mg/cigt.	5.0	11.4	11.7	12.6	13.0
Nicotine, mg/cigt.	0.40	0.81	0.86	0.92	0.96
Puffs/cigt.	6.6	8.4	6.9	6.6	8.0
Filtration Eff., %	55	49	47	46	52
Filler Rod TPM, mg/cigt.	23.5	32.6	25.8	27.2	27.8
Gas Phase Smoke Index, % Reduction	59	49	32	37	24
CO, mg/cigt.	4.1	10.3	12.2	12.7	15.5
Cigarette					
Total RTD, mm of H_2O	87	94	117	127	120
Static Burn. Time, min.	6.0	7.6	6.4	6.8	6.5
Length, mm	84.7	83.8	84.2	84.5	84.7
Circumference, mm	25.1	25.0	24.8	24.7	25.0
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	0.8	0.6	2.5	0.6	0.7
Porosity, sec.	12	12	7**	12	12
Filter					
Type	----	----	----*	----*	----
Inner	C In Paper	C-CA	CA	CA	C In Paper
Outer	CA	CA-PL	CA	CA	CA
RTD, mm of H_2O	74	81	68	68	62
Length, mm	27.1	25.0	24.8	24.8	20.0
Weight, g	0.20	0.35	0.20	0.20	0.18
Fiber denier/shape	----	----	----	----	----
Inner	----	3.4/I	3.6/Y	3.7/Y	----
Outer	3.0/Y	3.2/Y	3.8/Y	3.9/Y	4.2/Y
Carbon, mg/plug	7	40	68	67	32
Tipping Paper					
Length, mm	32	30	30	30	24
Color	Cork	White	Cork	Cork	Cork
Ventilation, %	50	26	----	----	----
Filler					
Total alkaloids, % (DWB)	2.00	1.78	1.97	1.94	2.08
Total red. sugars, % (DWB)	9.6	5.3	9.9	10.4	9.6
Reconstituted Tob., %	19	21	12	12	15
Expanded Stems, %	2	2	6	6	3
Expanded Tob., %	40	12	(23)	(23)	17
Wt. of tob., g (Corrected to 12.5% O.V.)	0.572	0.688	(0.607)	(0.607)	0.752
Rod Length, mm	57.6	58.8	59.4	59.7	64.7
Rod Density, g/cc	0.199	0.234	(0.208)	(0.205)	0.234

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

*Space containing carbon granules.

**These cigarette papers are perforated.

2050080879

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

100 MM CHARCOAL FILTER CIGARETTES

(Brands ranked according to FTC Tar, left to right)

	TG8 Tareyton Long Lights	PR8 Parliament Lights	TR8 Tareyton	LG8 Lark Lights	LR8 Lark
[1]Sales	0.11	0.50	0.55	0.09	0.04
Smoke					
FTC Tar, mg/cigt.	8.0	11.7	12.3	13.2	14.3
Nicotine, mg/cigt.	0.70	0.86	0.90	1.04	1.04
Puffs/cigt.	9.8	9.5	8.6	8.0	8.3
Filtration Eff., %	57	56	55	48	48
Filler Rod TPM, mg/cigt.	26.9	30.6	25.9	26.2	29.0
Gas Phase Smoke Index, % Reduction	58	60	30	28	26
CO, mg/cigt.	7.9	12.6	16.1	13.9	15.1
Cigarette					
Total RTD, mm of H_2O	110	123	142	118	135
Static Burn. Time, min.	6.6	7.1	6.8	6.4	6.8
Length, mm	99.7	99.4	99.6	98.7	98.4
Circumference, mm	24.8	24.9	24.8	24.7	24.6
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	0.8	1.8	0.8	2.1	0.6
Porosity, sec.	12	12	12	6**	12
Filter					
Type	----	----	----	----*	----*
Inner	C In Paper	C-CA	C In Paper	CA	CA
Outer	CA	CA	CA	CA	CA
RTD, mm of H_2O	95	110	74	68	71
Length, mm	27.0	30.1[2]	27.0	29.9	29.9
Weight, g	0.23	0.22	0.21	0.21	0.20
Fiber denier/shape	----	----	----	----	----
Inner	----	4.8/X	----	3.9/Y	3.8/Y
Outer	3.2/I	3.2/Y	4.7/Y	3.8/Y	3.8/Y
Carbon, mg/plug	7	54	33	63	62
Tipping Paper					
Length, mm	32	36	32	35	35
Color	Cork	White	Cork	Cork	Cork
Ventilation, %	43	30	----	----	----
Filler					
Total alkaloids, % (DWB)	2.10	1.89	2.02	1.99	1.94
Total red. sugars, % (DWB)	9.5	7.3	9.9	10.1	10.9
Reconstituted Tob., %	19	24	15	12	12
Expanded Stems, %	2	2	3	6	6
Expanded Tob., %	17	12	17	(23)	(23)
Wt. of tob., g (Corrected to 12.5% O.V.)	0.820	0.826	0.822	(0.702)	(0.702)
Rod Length, mm	72.7	69.3	72.6	68.8	68.5
Rod Density, g/cc	0.231	0.243	0.232	(0.208)	(0.211)

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

[2]The reported value includes the recessed portion.

*Space containing carbon granules.

**These cigarette papers are perforated.

80mm FILTER
70-85mm NF

2050080880

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

80 MM FILTER CIGARETTES (BOX)

(Brands ranked according to FTC Tar, left to right)

	PR4B Parliament Lights	CL4B Camel Lights	KN4B Kent	WN4B Winston	MR4B Marlboro
[1]Sales	0.39	0.18	0.04	0.53	7.92
Smoke					
FTC Tar, mg/cigt.	9.4	9.4	11.6	15.5	16.2
Nicotine, mg/cigt.	0.72	0.74	0.90	1.09	1.09
Puffs/cigt.	7.5	8.6	8.0	8.2	8.6
Filtration Eff., %	54	53	46	46	44
Filler Rod TPM, mg/cigt.	31.2	31.2	29.4	30.4	32.2
CO, mg/cigt.	9.3	9.9	11.6	14.6	14.2
Cigarette					
Total RTD, mm of H_2O	111	110	102	125	112
Static Burn. Time, min.	7.6	7.6	7.1	7.5	7.8
Length, mm	78.9	78.6	79.3	79.0	79.0
Circumference, mm	25.0	25.0	25.2	24.9	24.9
Paper					
Components					
Type	Cit.	Cit.	Cit.	Cit.	Cit.
Percent	0.6	0.8	0.6	0.4	0.5
Porosity, sec.	13	14	18	14	16
Filter					
Type	CA	CA	CA	CA	CA
RTD, mm of H_2O	110	88	64	70	68
Length, mm	25.0[2]	23.0	21.0	19.0	19.0
Weight, g	0.14	0.14	0.12	0.12	0.12
Fiber denier/shape	2.4/Y	2.7/Y	2.8/Y	2.6/Y	3.1/Y
Tipping Paper					
Length, mm	30	27	25	24	23
Color	White	Cork	White	Cork	Cork
Ventilation, %	34	33	21	----	9
Filler					
Total alkaloids, % (DWB)	1.96	1.86	1.89	1.83	1.94
Total red. sugars, % (DWB)	6.9	8.5	9.3	8.2	7.3
Reconstituted Tob., %	24	27	19	23	21
Expanded Stems, %	2	None	None	None	2
Expanded Tob., %	12	17	12	16	12
Wt. of tob., g (Corrected to 12.5% O.V.)	0.640	0.706	0.697	0.741	0.714
Rod Length, mm	53.9	55.6	58.3	60.0	60.0
Rod Density, g/cc	0.242	0.257	0.238	0.250	0.244

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.
[2]The reported value includes the recessed portion.

2050080881

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

NON-FILTER CIGARETTES

(Brands ranked according to FTC Tar, left to right)

	CM1 Camel	PM1 Philip Morris	LS1 Lucky Strike	CH5 Chesterfield King	PL5 Pall Mall	PM5 P. M. Commander
[1]Sales	2.23	0.02	0.85	0.42	3.70	0.11
Smoke						
FTC Tar, mg/cigt.	19.5	21.7	23.5	21.3	21.8	26.6
Nicotine, mg/cigt.	1.33	1.40	1.47	1.43	1.45	1.68
Puffs/cigt.	6.7	7.8	7.9	9.0	9.5	10.1
Filler Rod TPM, mg/cigt.	32.8	31.4	37.1	28.9	30.2	31.2
CO, mg/cigt.	14.3	13.1	16.8	14.4	17.0	15.8
Cigarette						
Total RTD, mm of H_2O	63	61	59	88	75	70
Static Burn. Time, min.	7.2	7.5	9.2	7.4	7.1	6.9
Length, mm	68.8	69.8	68.8	84.9	83.8	84.1
Circumference, mm	25.0	24.8	25.0	24.8	24.8	24.9
Paper						
Components						
Type	Cit.	Cit.	Phos.	Cit.	Cit.	Cit.
Percent	1.6	0.8	0.8	0.8	0.7	0.6
Porosity, sec.	20	13	29	12	18	13
Filler						
Total alkaloids, % (DWB)	2.08	1.93	1.96	1.94	1.94	1.96
Total red. sugars, % (DWB)	8.0	8.4	11.1	12.0	11.4	8.4
Reconstituted Tob., %	14	17	17	8	16	17
Expanded Stems, %	None	2	8	6	3	2
Expanded Tob., %	17	15	11	19	9	15
Wt. of tob., g (Corrected to 12.5% O.V.)	0.814	0.815	0.853	0.981	1.033	0.974
Rod Density, g/cc	0.238	0.233	0.250	0.234	0.257	0.241

[1]Estimated domestic sales in billions of cigarettes for first quarter - Maxwell Report - April, 1985.

RECON ES-ET

2050080882

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

CIGARETTE BLEND COMPONENTS
(Percent By Weight)

PHILIP MORRIS	Reconstituted Material	Expanded Tobacco	Expanded Stems
Alpine	23	12	2
B & H 100	20	12	2
B & H Menthol 100	20	12	2
B & H Lights 100	20	12	2
B & H Lights Menthol 100	20	12	2
B & H DeLuxe Ultra Lights 100	20	20	2
B & H DeLuxe Ultra Lights Men. 100	20	20	2
B & H Multifilter 85	21	12	2
B & H Multifilter Men. 85	21	12	2
Cambridge 85,100	14	30	None
Marlboro 80,85,100	21	12	2
Marlboro Lights 85,100	21	12	2
Marlboro Menthol 85	21	12	2
Merit 85,100	20	12	2
Merit Menthol 85,100	20	12	2
Merit Ultra Lights 85,100	20	19	None
Merit Ultra Lights Men. 85,100	20	19	None
Parliament Lights 80,85,100	24	12	2
Philip Morris 70,85 (NF)	17	15	2
Players 85,100	20	12	2
Players Menthol 85,100	20	12	2
Saratoga 120	22	12	2
Saratoga Men. 120	22	12	2
Virginia Slims 100	22	12	2
Virginia Slims Menthol 100	22	12	2
Virginia Slims Lights 100	22	12	2
Virginia Slims Lights Men. 100	22	12	2
BROWN & WILLIAMSON			
Barclay 80,85	18	10	6
Barclay 100	(17)	(12)	6
Barclay Menthol 85,100	9	24	6
Belair 85,100	9	11	14
Kool 85,100	12	11	12
Kool Lights 85,100	12	11	8
Kool Milds 85	12	11	10
Kool Ultra 85,100	7	19	10
Raleigh 85	12	(10)	12
Raleigh 100	12	None	12
Raleigh Lights 85,100	12	12	8
Viceroy 85,100	12	11	10
Viceroy Lights 85,100	12	11	10
LORILLARD			
Kent 80,85,100	19	12	None
Kent Golden Lights 85,100	22	12	None
Kent Golden Lights Men. 85,100	22	13	None
Kent III 85,100	15	24	None
Newport 85,100	20	12	None
Newport Lights 85,100	20	12	None
Old Gold 85	22	12	None
Satin 100	22	12	None
Satin Menthol 100	22	12	None
True 85, 100	21	11	None
True Menthol 85,100	21	11	None

The values for all manufacturers are the average of cigarettes manufactured in 1/85.

2050080883

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

CIGARETTE BLEND COMPONENTS
(Percent By Weight)

REYNOLDS	Reconstituted Material	Expanded Tobacco	Expanded Stems
Bright Menthol 85,100	24	30	None
Camel 70 (NF)	14	17	None
Camel 85	27	17	None
Camel Lights 80,85,100	27	17	None
Doral Lights 85,100	28	37	None
Doral Lights Men. 85,100	28	37	None
More 120	24	17	None
More Menthol 120	24	17	None
More Lights 100	24	17	None
More Lights Menthol 100	24	17	None
Now 80	None	94	None
Now 85,100	17	51	None
Now Menthol 85,100	17	51	None
Salem 85,100	24	16	None
Salem Lights 85,100	24	16	None
Salem Ultra Lights 85	24	29	None
Salem Ultra Lights 100	24	16	None
Salem Slim Lights 100	24	25	None
Sterling Special Blend 100	26	14	None
Sterling Special Blend Men. 100	26	14	None
Vantage 85,100	23	17	None
Vantage Menthol 85,100	23	17	None
Vantage Ultra Lights 85,100	23	25	None
Vantage Ultra Lights Men. 85	23	28	None
Vantage Ultra Lights Men. 100	23	37	None
Winston 80,85,100	23	16	None
Winston Lights 85,100	23	16	None
Winston Ultra Lights 85,100	23	21	None
AMERICAN			
Carlton 85,100	17	54	None
Carlton Menthol 85	17	54	None
Carlton 120	17	36	None
Carlton Menthol 120	17	36	None
Lucky Strike 70 (NF)	17	11	8
Lucky Strike 85	17	13	7
Pall Mall 85 (NF)	16	9	3
Pall Mall 100	16	9	4
Pall Mall Lights 100	16	16	4
Silva Thins 100	9	16	13
Silva Thins Menthol 100	20	9	4
Tareyton 85,100	15	17	3
Tareyton Lights 85	19	40	2
Tareyton Long Lights 100	19	17	2
LIGGETT GROUP			
Chesterfield 85 (NF)	8	19	6
Lark 85,100	12	(23)	6
Lark Lights 85,100	12	(23)	6
L & M 85	14	22	6
L & M 100	15	30	6

The values for all manufacturers are the average of cigarettes manufactured in 1/85.

2050080884

MINOR BRANDS

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

MINOR BRANDS

Brand	Cigt. Length, mm	FTC Tar mg/cigt.	Nicotine, mg/cigt.	Puffs/ cigt.	CO, mg/cigt.
FILTER - PLAIN					
BENSON & HEDGES (BOX)	70	1.5	0.14	7.4	1.4
L & M (Box)	80	(11.9)	(0.80)	(6.4)	(13.1)
Camel (Box)	80	15.3	1.06	8.2	14.4
Triumph	84	3.5	0.38	7.0	2.6
Pall Mall Extra Light	85	6.9	0.66	8.4	6.5
Lucky Strike Lights	83	7.5	0.62	7.6	8.5
Old Gold Lights	84	8.9	0.87	7.0	9.3
BENSON & HEDGES (BOX)	85	15.9	1.34	9.3	11.3
Pall Mall	82	16.6	1.28	8.8	17.1
Half & Half	85	17.8	1.49	10.0	17.7
Bull Durham	85	28.6	2.07	11.2	22.7
Winston International (Box)	94	16.6	1.20	9.2	14.2
Kent III (Box)	98	4.9	0.53	8.3	5.4
Triumph	99	5.1	0.52	8.4	5.2
Carlton Slims Deluxe (Box)	100	5.6	0.52	8.2	6.4
Lucky Strike Lights	100	9.0	0.77	9.7	10.8
Pall Mall Lights	100	10.1	0.79	9.1	10.5
Eve Slim Lights (Box)	98	11.4	0.91	8.0	9.6
Lucky Strike	100	11.5	0.97	10.4	9.6
St. Moritz	99	13.1	1.01	8.5	13.8
HI-LITE (BOX)	98	13.6	1.06	9.8	13.6
MARLBORO (BOX)	99	16.5	1.18	10.3	14.9
BENSON & HEDGES (BOX)	99	16.7	1.14	9.9	15.4
P.M. INTERNATIONAL (BOX)	99	17.0	1.12	10.3	15.5
Old Gold	99	19.3	1.60	9.2	20.5
Eve Lights (Box)	119	(12.9)	(1.04)	(13.3)	(10.4)
Max	120	17.8	1.50	10.7	18.2
Long Johns	119	18.0	1.54	16.9	18.4
Tall	120	20.4	1.70	15.0	21.4
FILTER - CHARCOAL					
GALAXY	84	14.0	0.98	8.2	14.7

[1]Tipping Paper Color: W = White, CK = Cork, B = Brown

[2]Filter Type: CA = Cellulose Acetate, C = Carbon

2050080885

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

MINOR BRANDS

Total RTD, mm of H_2O	Ventilation, %	Circumference, mm	Porosity, %	Tipping Paper Length,[1] mm	Filter Length, mm	Filter Type[2]	Brand
							FILTER - PLAIN
98	72	24.9	8	30W	25	CA	BENSON & HEDGES (BOX)
114		24.7	(12)	26W	21	CA	L & M (Box)
122		24.9	17	23CK	19	CA	Camel (Box)
96	61	25.0	19	32CK	25	CA/CA	Triumph
107	48	24.9	13	30CK	25	CA	Pall Mall Extra Light
132	33	24.9	12	30CK	25	CA	Lucky Strike Lights
103	32	25.0	18	32CK	25	CA	Old Gold Lights
105	21	25.0	14	30W	20/5	CA	BENSON & HEDGES (BOX)
121		25.0	21	24CK	20	CA	Pall Mall
124		24.9	12	24CK	20	CA	Half & Half
89		26.2	44	24CK	20	CA	Bull Durham
108	7	25.3	15	31CK	27	CA	Winston International (Box)
112	53	24.6	18	35W	27	CA	Kent III (Box)
113	54	24.9	19	35CK	27	CA/CA	Triumph
113	49	23.0	14	36W	32	CA	Carlton Slims Deluxe (Box)
131	36	24.4	13	32CK	27	CA	Lucky Strike Lights
133	26	24.4	13	35W	27	CA	Pall Mall Lights
129		22.7	5*	35W	30	CA	Eve Slim Lights (Box)
110	36	25.1	12	32CK	27	CA	Lucky Strike
124		24.8	7*	34W	27	CA	St. Moritz
122	21	24.8	14	31.5CK	27.5	CA	HI-LITE (BOX)
120	10	24.9	12	31.5CK	27.5	CA	MARLBORO (BOX)
122	10	24.8	13	32W	27.5	CA	BENSON & HEDGES (BOX)
124	10	25.0	12	32CK	27.5	CA	P.M. INTERNATIONAL (BOX)
114		24.8	33	32CK	27	CA	Old Gold
113	55	21.1	36	35W	30	CA	Eve Lights (Box)
134	16	22.0	32	35W	30	CA	Max
137	39	22.4	34	35B	30	CA	Long Johns
141	32	22.4	40	35W	30	CA	Tall
							FILTER - CHARCOAL
109	11	25.2	19	30CK	25	C-CA/CA	GALAXY

*These cigarette papers are perforated.

2050080884

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

MINOR BRANDS

Brand	Cigt. Length, mm	FTC Tar, mg/ cigt.	Nico-tine, mg/ cigt.	Puffs/ cigt.	CO, mg/ cigt.	Smoke Menthol, mg/cigt.
FILTER - MENTHOL						
Kool (NF)	70	20.5	1.30	6.7	13.2	0.49
Newport Lights (Box)	80	8.4	0.78	6.8	9.6	0.35
Newport (Box)	79	15.4	1.20	7.7	16.2	0.38
Kool (Box)	80	15.9	1.11	7.6	14.3	0.44
Triumph	84	3.9	0.40	7.2	2.6	0.24
Montclair	83	14.9	1.09	7.3	15.6	0.44
Iceberg 100's	100	3.9	0.35	7.9	5.0	0.31
Triumph	99	4.9	0.50	8.2	5.3	0.33
Carlton	100	5.0	0.42	8.0	6.1	0.33
Carlton Slims Deluxe (Box)	100	5.8	0.52	8.5	6.2	0.39
Eve Slim Lights (Box)	98	11.6	0.90	7.8	9.9	0.39
Kool Milds	99	11.9	0.83	8.3	13.3	0.37
Pall Mall Lights	100	12.6	1.10	8.4	12.2	0.41
St. Moritz	99	13.9	1.07	8.6	14.2	0.49
Kent	99	15.1	1.29	9.0	14.3	0.38
BENSON & HEDGES (BOX)	99	16.0	1.09	10.0	15.0	0.68
P.M. INTERNATIONAL (BOX)	98	16.8	1.10	10.2	16.4	0.51
Spring	99	19.0	1.17	8.9	17.0	0.42
Eve Lights (Box)	120	(12.7)	(1.02)	(13.4)	(10.3)	(0.56)
Max	120	17.9	1.52	10.6	18.1	0.51
Tall	119	18.2	1.59	15.3	19.7	0.61
NON-FILTER						
ENGLISH OVALS (BOX)	68	17.6	1.34	7.8	9.7	
Chesterfield	70	18.3	1.21	7.2	12.0	
PLAYERS (BOX)	67	20.4	1.49	8.3	11.9	
ENGLISH OVALS (BOX)	83	22.1	1.77	10.6	12.1	
H. Tareyton	85	24.1	1.68	9.5	17.3	
Raleigh	84	24.4	1.49	9.2	17.5	
Old Gold	85	24.6	1.76	9.1	17.8	

[1]Tipping Paper Color: W = White, CK = Cork, B = Brown

[2]Filter Type: CA = Cellulose Acetate, C = Carbon

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

MINOR BRANDS

Total RTD, mm of H_2O	Ventilation, %	Circumference, mm	Porosity, %	Tipping Paper Length,[1] mm	Filter Length, mm	Filter Type[2]	Brand
							FILTER - MENTHOL
61		25.1	23	11CK			Kool (NF)
102	30	24.9	20	30CK	25	CA	Newport Lights (Box)
117		25.2	28	25CK	21	CA	Newport (Box)
117		25.0	18	23CK	18	CA	Kool (Box)
92	64	25.0	19	32CK	25	CA/CA	Triumph
129		24.9	22	24W	20	CA	Montclair
122	58	24.6	13	32W	27	CA	Iceberg 100's
108	56	24.8	19	35CK	27	CA/CA	Triumph
127	55	24.4	19	32W	27	CA	Carlton
115	51	22.9	13	36W	32	CA	Carlton Slims Deluxe (Box)
126		22.8	5*	35W	30	CA	Eve Slim Lights (Box)
133	15	24.9	14	36CK	27	CA	Kool Milds
123		24.4	7*	32W	27	CA	Pall Mall Lights
120		24.8	6*	34W	27	CA	St. Moritz
91	17	25.0	18	32W	27	CA	Kent
126	11	24.8	12	32W	27.5	CA	BENSON & HEDGES (BOX)
130	11	25.0	16	32CK	27.5	CA	P.M. INTERNATIONAL (BOX)
94		24.9	19	32W	27	CA	Spring
110	56	21.2	37	35W	30	CA	Eve Lights (Box)
136	16	22.0	32	35W	30	CA	Max
147	40	22.3	42	35W	30	CA	Tall
							NON-FILTER
87		25.5	11				ENGLISH OVALS (BOX)
71		24.9	14				Chesterfield
87		24.9	13				PLAYERS (BOX)
97		25.8	12				ENGLISH OVALS (BOX)
64		24.9	14				H. Tareyton
68		25.2	22				Raleigh
68		25.2	30				Old Gold

*These cigarette papers are perforated.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

CIGARETTES ON MARKET WITH TAR AND NICOTINE DATA LISTED ON PACK

	Tar, mg/cigt.			Nicotine, mg/cigt.		
	Listed On Package	FTC Data	CI Data	Listed On Package	FTC Data	CI Data
AMERICAN						
Carlton 85 (Box)	<0.01	*	0.00	0.002	*	0.00
Carlton Menthol 85	<1	1	1	0.1	0.1	0.1
Carlton 100 (Box)	<1	1	1	0.1	0.1	0.1
Carlton 85	1	1	2	0.2	0.1	0.2
Iceberg 100's	4	4	4	0.4	0.3	0.3
Carlton Menthol 100	5	5	5	0.5	0.4	0.4
Tareyton Lights 85	5	4	5	**	0.4	0.4
Carlton 100	5	5	6	0.5	0.4	0.5
Carlton Slims Deluxe 100	6	-	6	0.6	-	0.5
Carlton Slims Menthol Deluxe 100	6	-	6	0.6	-	0.5
Pall Mall Extra Light 85	7	7	7	**	0.6	0.7
Carlton Menthol 120	7	7	6	0.7	0.6	0.6
Carlton 120	7	7	7	0.7	0.6	0.7
Lucky Strike Lights 85	8	-	8	**	-	0.6
Lucky Strike Lights 100	9	-	9	**	-	0.8
LORILLARD						
Triumph Menthol 85	2	3	4	0.3	0.3	0.4
Triumph 85	3	3	3	0.4	0.3	0.4
Triumph 100	4	4	5	0.5	0.4	0.5
Triumph Menthol 100	4	4	5	0.5	0.4	0.5
PHILIP MORRIS						
Cambridge 83 (Box)	<0.1	*	0.00	**	*	0.00
Cambridge 84	1	1	2	**	0.1	0.2
Merit Ultra Lights 85	4	5	4	0.4	0.4	0.4
Merit Ultra Lights Menthol 85	4	5	4	0.4	0.4	0.4
Cambridge 100	5	5	5	**	0.4	0.5
Merit Ultra Lights 100	5	5	5	0.5	0.4	0.5
Merit Ultra Lights Menthol 100	5	4	6	0.5	0.4	0.5
B & H DeLuxe Ultra Lights 100 (Box)	6	5	6	0.6	0.4	0.5
B & H DeLuxe Ultra Lights Menthol 100 (Box)	6	5	6	0.6	0.4	0.5
Merit 85	8	8	8	0.6	0.5	0.6
Merit 85 (Box)	8	-	8	0.6	-	0.6
Merit Menthol 85	8	8	8	0.6	0.5	0.6
Merit 100	10	10	10	0.8	0.7	0.7
Merit Menthol 100	10	9	10	0.8	0.7	0.7
REYNOLDS						
Now 80 (Box)	<0.5	*	0.00	**	*	0.00
Now 85	1	1	2	**	0.1	0.2
Now Menthol 85	1	1	2	**	0.1	0.2
Vantage Ultra Lights 85	5	5	6	**	0.4	0.5
Vantage Ultra Lights 100	5	5	6	**	0.5	0.4
Vantage Ultra Lights Menthol 85	5	5	5	**	0.4	0.4
Vantage Ultra Lights Menthol 100	5	5	5	**	0.4	0.5
Vantage 85	9	10	9	**	0.7	0.7
Vantage Menthol 85	9	9	8	**	0.7	0.7
Vantage 100	9	9	9	**	0.7	0.7
Vantage Menthol 100	9	9	10	**	0.7	0.7

[1]FTC data published January, 1985.
*Less than 0.5 mg tar and 0.05 mg nicotine.
**Not Listed.

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

COUPON BRANDS

Twelve cigarette brands are now carrying coupons.

PHILIP MORRIS

Alpine (85)
Galaxy (85)

AMERICAN BRANDS

None

BROWN & WILLIAMSON[1]

Belair (85 & 100)
Raleigh Filter (85 & 100)
Raleigh Nonfilter (85)
Raleigh Lights (85 & 100)

LORILLARD

None

LIGGETT GROUP

Chesterfield Nonfilter (70 & 85)
Chesterfield Filter 85

REYNOLDS

None

[1]These brands contain 2 coupons per pack and 8 coupons in the carton.

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PLEASE NOTE

THE APPENDIX SECTION WHICH INCLUDES THE SUMMARY OF BRAND CHANGES, THE DESCRIPTION OF DATA REPORTED, AND EXPERIMENTAL PROCEDURES HAS BEEN UPDATED IN THIS REPORT.

PLEASE RETAIN THIS COPY FOR A REFERENCE AS THESE SECTIONS WILL NOT BE INCLUDED AGAIN UNTIL JANUARY, 1986. THIS WILL SAVE A CONSIDERABLE AMOUNT OF PAPER AND EFFORT BY NOT INCLUDING THE APPENDIX SECTION IN EACH MONTH'S REPORT.

THE SUMMARY OF COMPETITIVE BRAND CHANGES IS ARRANGED ALPHABETICALLY BY COMPANY. ALSO, THE BRANDS ARE LISTED ALPHABETICALLY FOR YOUR CONVENIENCE IN LOCATING A SPECIFIC BRAND.

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APPENDIX

SUMMARY OF COMPETITIVE BRAND CHANGES OBSERVED SINCE APRIL, 1960

A. AMERICAN BRANDS

AMERICAN BRAND 80

80 mm - Test marketed in hard box (80 mm) - No unusual characteristics. 4/71

AMERICAN BRAND 85

85 mm - Test marketed in soft pack (85 mm) - No unusual characteristics. 4/71

AMERICAN LIGHTS 120

Plain - Introduced 120 mm cigarette with a 40 mm CA filter and a tipping paper length of 45 mm - Tar (8 mg) lower than any 120 mm entry to date. 4/76

AMERICAN LIGHTS MENTHOL 120

Menthol - Introduced 120 mm cigarette with a 40 mm CA filter and a tipping paper length of 45 mm - Tar (9 mg) lower than any 120 mm entry to date. 4/76

AMERICAN LONGS 120

Plain - Introduced 120 mm cigarette with a white cigarette paper - 30 mm CA filter - Tar (19 mg) and nicotine (1.5 mg) deliveries. 9/75

AMERICAN LONGS MENTHOL 120

Menthol - Introduced 120 mm cigarette with a white cigarette paper - 30 mm CA filter - Tar (16 mg) and nicotine (1.3 mg) deliveries. 9/75

AMERICAN OVALS 100

100 mm cigarette with 25 mm CA filter made like a normal cigarette and pressed into its oval shape. 6/69

BERMUDA 85

Test marketed - king size - 20 mm CA filter, high TPM, low RTD. 5/65

BRIGHTON 85

Test marketed - king size - dual filtered mentholated - similar to Montclair. 4/65

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A. AMERICAN BRANDS (continued)

BRIGHTON CONVERTIBLE MENTHOL 100

Same as Tennyson Menthol 100 - Introduced in test market. 4/68

BRIGHTON PINCH MENTHOL 100

Similar to previously introduced Brighton Convertible Menthol 100 and Tennyson Menthol 100. 11/68

BULL DURHAM 85

Introduced - king size with larger circumference than normal cigarettes - 20 mm CA filter. 6/66

CARLTON 70

70 mm cigarette with 25 mm CA filter - Tar (0.7 mg), nicotine (0.15 mg). Data noted on pack "Tar" = 3 mg - Nicotine = 0.3 mg. 5/69

Increased filter ventilation, a more porous cigarette paper and a smaller circumference lowered tar to 1 mg and nicotine to 0.1 mg deliveries. 1/76

Expanded tobacco introduced at 35% level; reconstituted tobacco level decreased (25 to 18%). 9/76

CARLTON 85

Introduced - king size, dual filter with paper inner filter containing 3 mg of carbon - paper perforated immediately in front of tipping paper - TPM (8 mg), nicotine (0.5 mg) - Package label states: "Tar" = 2.5 mg, Nicotine = 0.4 mg. 1/64

TPM and nicotine reduced by changing to filter ventilation - Package label states: "Tar" = 2.7 mg, Nicotine = 0.3 mg. 5/64

TPM (3 mg) and nicotine (0.2 mg) increased - less efficient filter - Package label states: "Tar" = 3.9 mg and Nicotine = 0.4 mg. 10/64

TPM and nicotine deliveries increased by changing filter ventilation - "Tar" and nicotine data no longer stated on label. 1/65

TPM, nicotine and organic gas phase deliveries increased - Changes observed in total RTD, fiber denier and tobacco weight - Alkaloids increased slightly. 5/65

Total RTD decreased. 4/66

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

CARLTON 85 (continued)

TPM and nicotine decreased - Filter efficiency increased as result of fiber denier changed.	5/66
"Tar" and nicotine data stated on package label. "Tar" = 9.5 mg and nicotine = 0.6 mg.	6/66
TPM and nicotine decreased, 3 mg and 0.1 mg by increasing ventilation. Data on pack changed - "Tar" = 9 mg and nicotine = 0.6 mg.	10/66
Data on pack changed - "Tar" = 7 mg and Nicotine = 0.5 mg.	4/67
Tar (2 mg) and nicotine (0.2 mg) decreased by increase in filter ventilation.	10/67
Tar (1 mg) and nicotine (0.1 mg) increased by changes in fiber shape and fiber denier.	12/67
A model of Carlton with 25 mm CA filter introduced with tar of 2.0 mg.	2/69
Filter change from 20 mm dual filter to 25 mm CA filter.	7/69
Tar (4 to 1 mg) and nicotine (0.4 to 0.2 mg) reduced by increased filter ventilation and lowering tobacco weight - Expanded tobacco content increased from 0 to 42%.	3/76

CARLTON 85 (BOX)

Cigarettes packaged in a flip top box to replace the 70 mm Carlton cigarettes already on the market. Similar to Carlton 85 soft pack cigarettes. Tar (1 mg) and nicotine (0.1 mg) listed on pack.	1/77
Tar (<1.0 to <0.01 mg) and nicotine (0.1 to 0.002 mg) data listed on pack changed as indicated.	3/81
Ventilation was changed from four to six rows of laser perforation. Paper porosity changed from 14 to 7 sec. Both tar and nicotine deliveries of these cigarettes remains at 0.00 mg.	8/81

CARLTON MENTHOL 85

Introduced - Mentholated version of Carlton 85 plain.	1/72
Tar (4 to 1 mg) and nicotine (0.4 to 0.1 mg) reduced by increased filter ventilation and lowering tobacco weight - Expanded tobacco content increased from 0 to 45%.	2/76

CARLTON 100'S

National distribution - low tar (6 mg) and nicotine (0.5 mg) achieved by a 27 mm CA filter containing ventilation (52%). A low tobacco weight and rod density resulted from high ET content (35%). Tar (5 mg) and nicotine (0.5 mg) listed on pack.	4/77
Lower tar (5.9 to 4.4 mg) and nicotine (0.5 to 0.4 mg) deliveries resulted from a change to a more porous cigarette paper.	11/77

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A. AMERICAN BRANDS (continued)

CARLTON 100 (BOX)

Introduced - Tar (0.8 mg) and nicotine (0.08 mg) - Ultra low delivery result of high filter ventilation (84%). 4/80

CARLTON MENTHOL 100 (Box)

Introduced in Texas - Tar (1.0 mg) and nicotine (0.1 mg) - similar to Carlton 100 (Box). 1/82

CARLTON MENTHOL 100

Introduced on test market - Low delivery (4 mg tar and 0.4 mg nicotine) mentholated cigarettes similar to Carlton 100 cigarettes previously introduced. Blend contains 33% ET. 11/77

CARLTON SLIMS DELUXE 100 (BOX)

National distribution-delivers 7 mg tar and 0.6 mg nicotine. 1/84

CARLTON SLIMS DELUXE MENTHOL 100 (BOX)

National distribution-delivers 7 mg tar and 0.6 mg nicotine. 1/84

CARLTON 120

Introduced - test market - Tar (7.2 mg) and nicotine (0.61 mg). The blend contains 34% expanded tobacco - ventilation system consists of two rows of laser perforation. 7/81

CARLTON MENTHOL 120

Introduced - test market - Tar (6.4 mg) and nicotine (0.59 mg). The ventilation system consists of two rows of laser perforation. 8/81

Tar (5.9 to 7.4 mg), nicotine (0.57 to 0.77 mg), and CO (4.5 to 6.6 mg) increased - ventilation (37 to 28%) decreased. 11/82

COLD HARBOR 85

Introduced - king size in soft pack - similar to Waterford with menthol added to filler. 6/66

COLONY FILTER 85

Introduced - One of the first American Tobacco brands with coupons - 20 mm CA filter. 9/66

COLONY MENTHOL 85

Introduced - One of the first American Tobacco brands with coupons - 20 mm CA filter. 9/66

COLONY FILTER 100

Introduced - 100 mm cigarette with 20 mm CA filter. 5/67

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

COLONY MENTHOL 100

Introduced - 100 mm cigarette with 20 mm CA filter. 5/67

COMPASS 85

Test marketed - king size mentholated - 20 mm CA filter. 6/65

DOUBLE EIGHT 88

Double Eight, 88 mm long, replaced Pall Mall 88 on the market - Packaged in a black and white striped pack. 7/68

FIFTY-FIFTY 100

Introduced - 100 mm cigarette with 45 mm CA filter. 2/67

Tar (5 mg) and nicotine (0.2 mg) increased by changes in cigarette paper. 10/67

FRESH CONVERTIBLES 100

Similar to Tennyson Convertible Menthol 100, plug-space-plug filter, with capsules containing menthol and carbon granules in space. 9/69

H. TAREYTON 85 (NF)

Removed from C.I. tables. History of brand in C.I. 5/64. 11/63

HALF & HALF 85

Introduced - king size in soft pack with "pipe tobacco blend". 5/64

ICEBERG 10 MENTHOL 85

Low delivery (10 mg tar and 0.8 mg nicotine) with new Filtrona filter - Mentholated cigarette. Blend contains expanded tobacco (4%) and expanded RKS (3%). 5/72

ICEBERG MENTHOL 100

Test marketed - 100 mm mentholated cigarette with a 30 mm "Filtrona-type" filter similar to the one used on Lucky Ten 100. Blend contains expanded tobacco and stems. 2/74

Cigarette re-engineered - Tar (10 to 5 mg) and nicotine (0.7 to 0.3 mg) decreased. Filtrona-type filter replaced by standard CA filter with 47% ventilation. 7/76

LTC 85

LTC (low tar cigarette) - similar to Lucky Ten in all characteristics. 8/71

LONG JOHNS 120

Introduced 120 mm cigarette with brown paper colored with azo dyes. Circumference 22.5 mm. Tar (20 mg) and nicotine (1.7 mg) deliveries. 5/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

LONG JOHNS MENTHOL 120

Introduced 120 mm menthol cigarette with brown paper colored with azo dyes. Circumference 22.5 mm. Tar (17 mg) and nicotine (1.4 mg) deliveries.	5/75

LUCKY 100'S

Introduced - Similar to previously marketed Lucky Ten 100 - 30 mm "Filtrona" filter.	6/74
Cigarette re-engineered - Tar (10 to 5 mg) and nicotine (0.8 to 0.4 mg) decreased. Filtrona-type filter replaced by standard CA filter with 47% ventilation.	7/76

LUCKY FILTERS 100

Introduced - 100 mm cigarette with a 20 mm dual filter; 10 mm crimped tobacco with carbon and 10 mm CA filter.	3/67
Filter length (20 to 25 mm) increased, tar lower by 1 mg.	7/68
Name changed - Lucky Strike 100 to Lucky Filters 100.	8/68
Coupon added to pack.	6/69
Filter change from 25 mm dual filter to 25 mm CA filter, cigarette paper porosity change (12 to 21 seconds), tar (1 mg) and nicotine (0.1 mg) increased.	9/69
Reconstituted tobacco decreased (20 to 15%).	10/69

LUCKY FILTERS (POLYMER) - 85

85 mm version of Lucky Filters, with a new polymer filter, was introduced. The twenty-five (25) mm filter consists of a CA-space-CA (10-5-10) with the space containing approximately 100 mg of polyethylene and alumina.	9/68

LUCKY FILTERS (POLYMER) - 100

100 mm version of Lucky Filters, with a new polymer filter, was introduced. The twenty-five (25) mm filter consists of a CA-space-CA (10-5-10) with the space containing approximately 100 mg of polyethylene and alumina.	9/68

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

LUCKY STRIKE 70 (NF)

Paper porosity and paper component increased - TPM reduced by 5 mg.	1/62
TPM increased by 2 mg.	7/62
TPM increased by 1 mg.	12/62
TPM decreased by 1.5 mg.	6/63
TPM decreased by 2 mg by changing paper component and porosity.	5/64
Reconstituted tobacco content increased (7 to 11%).	4/66
Circumference and tobacco weight decreased.	9/66
TPM and nicotine increased, 6 mg and 0.2 mg respectively, by changing paper component, citrate to phosphate, and decreasing paper porosity.	10/66
Reconstituted material increased 9 to 12%.	9/68
Reconstituted material increased 12 to 17%.	10/70
Expanded tobacco added to blend (4%).	1/72
Expanded tobacco increased 4 to 6%.	1/74
Lower tar (1 mg) and nicotine (0.1 mg) correlating with a lower filler rod TPM.	11/75
Tar delivery (27 to 25 mg) decreased by increase in paper porosity.	2/76

LUCKY STRIKE FILTER 80

Plain - Test marketed in a soft pack - First 80 mm cigarette in a soft pack in the U.S. - High tar (26 mg) and nicotine (1.6 mg) correlating with a low filtration efficiency.	12/75

LUCKY STRIKE FILTER 85

Test marketed - king size triple filter (CA; carbon on CA; CA) - filter has gas phase activity.	8/64
Test marketed with 20 mm CA filter - high TPM.	11/64
TPM (2 mg) and nicotine (0.1 mg) decreased by increase in filter efficiency.	11/66
TPM (2 mg) and nicotine (0.1 mg) decreased by increase in paper porosity.	12/66
TPM reduced by a filter change from single CA to dual filter - Dual filter consisted of inner filter made from crimped tobacco sheet with embedded carbon and an outer CA filter.	9/67
Change from 20 mm dual filter to 20 mm CA filter.	8/69
Reconstituted tobacco increased (14 to 18%).	4/70
Tar (3 mg) and nicotine (0.3 mg) increased as result of blend change.	5/70

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

LUCKY STRIKE 85

Introduced - test market - delivers 11.6 mg tar and 0.94 mg nicotine. The cigarette length is 83 mm. American Brands has no other 85 mm cigarette in the 10-12 mg tar category. 11/81

LUCKY STRIKE 85 (BOX)

Introduced - test market - delivers 11.2 mg tar and 0.88 mg nicotine. The ventilation consists of one row of laser perforation. The cigarette length is 83 mm. American Brands has no other 85 mm cigarette in the 10-12 mg tar category. 11/81

LUCKY STRIKE MENTHOL 85

Introduced - 85 mm mentholated cigarette with 20 mm CA filter. 6/66

LUCKY STRIKE MENTHOL 100

Introduced - 100 mm mentholated cigarette with 20 mm CA filter. 4/67

TPM (2 mg) and nicotine (0.2 mg) decreased by changing to a more porous paper. 5/67

Filter length (20 to 25 mm) increased, tar lower (1 mg). 7/68

LUCKY STRIKE LIGHTS 85

Introduced - deliveries 7 mg tar - has the shortest cigarette length of any king size cigarette in a soft pack. 11/83

LUCKY STRIKE LIGHTS 100

Introduced - delivers 9 mg tar. 11/83

LUCKY TEN 85

Low delivery (10 mg tar and 0.8 mg nicotine) with new Filtrona filter - Blend contains expanded tobacco (5%). 8/71

A decrease in tar (9 to 8 mg) resulting from a change in filters from a 25 mm Filtrona-type filter to a 25 mm standard CA filter containing ventilation (35%). Lower total RTD noted. 4/77

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

LUCKY TEN 100

Test marketed - 30 mm Filtrona filter with triangular openings at each end and constricted in the middle. 5% expanded tobacco. Tar (9 mg) and nicotine (0.9 mg) listed on pack. 4/73

MARYLAND 100

100 mm cigarette with 100% air-cured tobacco - No RKS or reconstituted material. 3/70

MARYLAND MENTHOL 100

100 mm mentholated cigarette with 100% air-cured tobacco - Contains no reconstituted material or RKS. 10/70

MERMAID MENTHOL 100

Test marketed - 25 mm CA filter - Blend contains RKS which has been processed to give an expanded appearance. 11/71

MONTCLAIR 85

Introduced - mentholated, dual filter, carbon section - released menthol, which is concentrated there, as TPM is picked up - has no gas phase activity. 3/62

TPM, nicotine, and menthol deliveries increased. 8/62

Paper component identified as chloride type. 4/63

TPM and nicotine deliveries increased by changing filter ventilation - "Tar" and nicotine data no longer stated on label. 1/64

TPM reduced 7 mg as result of a new filter and filter ventilation - Package label states: "Tar" = 5.2 mg, Nicotine = 0.5 mg. 5/64

TPM reduced 5 mg. Nicotine delivery also decreased, RTD increased. TPM reduced 4 mg by changing paper component and porosity. 6/64

Carbon type changed, coconut to coal. 10/64

TPM (4 mg) and nicotine (0.2 mg) increased, less efficient filter - Package label states: "Tar" = 6.9 mg, Nicotine = 0.7 mg. 11/64

Menthol content and delivery increased. 8/65

Menthol content and delivery increased. 7/66

TPM (2 mg) decreased by increasing filter ventilation. 5/67

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

MONTCLAIR 85 (continued)

TPM (4 mg) and nicotine (0.2 mg) decreased by changes in filter ventilation, filter efficiency, and paper porosity.	6/67
Coupon added to pack.	9/67
Circumference decreased (25.2 to 24.9 mm); lower tobacco weight noted.	12/68
Reconstituted tobacco content increased (20 to 36%).	4/69
Change from 20 mm dual filter to 20 mm CA filter.	8/69
Reconstituted tobacco decreased (36 to 28%).	10/69
Tar (6 mg) and nicotine (0.5 mg) increased by elimination of filter ventilation, change to less porous paper. Reconstituted tobacco decreased (28 to 19%).	4/70
Reconstituted tobacco increased (19 to 25%).	9/71
Expanded tobacco added to blend (3%) - Higher filler menthol and menthol delivery noted.	2/73
Expanded stems added to blend (12%) and reconstituted material decreased from 17 to 8% - No change in smoke deliveries.	3/73
Expanded tobacco removed from blend. Tar (1 mg) and nicotine (0.1 mg) decreased - Alkaloids and sugars lower.	2/75

PALL MALL 85 (NF)

Paper porosity and RTD increased; TPM and nicotine deliveries reduced (3 mg and 0.1 mg).	4/63
Nicotine delivery reduced slightly.	6/63
TPM and nicotine reduction, 6 mg and 0.2 mg respectively, by changing paper component, phosphate to citrate, and increasing paper porosity.	1/64
TPM and nicotine increased, 7 mg and 0.3 mg respectively, by changing paper component, citrate to phosphate, and decreasing paper porosity.	10/66
Reconstituted material increased, 9 to 12%.	4/67
TPM (6 mg) and nicotine (0.2 mg) decreased by changing paper additive and increasing paper porosity.	5/67
Expanded tobacco added to blend (2%).	1/73
Expanded tobacco increased from 2 to 6%.	1/74
Expanded stems added to blend (3%).	9/75
Lower tar (1 mg) and nicotine (0.1 mg) correlating with a lower filler rod TPM.	11/75
Lower tar (25 to 23 mg) and nicotine (1.5 to 1.4 mg) deliveries resulting from a change to a more porous cigarette paper.	6/79
Cigarette length (84.8 to 83.7 mm) decreased.	8/82

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

PALL MALL 85 (NF)

Test marketed in Rhode Island - contains 25 cigarettes per pack - similar to Pall Mall 85 (NF) - 200 cigarettes per carton - cigarettes packed in an 8-9-8 configuration in the pack. 5/85

PALL MALL 88

Pall Mall cigarettes, 88 mm long, introduced in white pack with gold lettering. 5/68

PALL MALL 100

Plain - Test marketed in new air tight hermetically sealed "polyfoil pak." 10/74

Freon expanded tobacco has been added at the 9% level resulting in a lower tobacco weight (0.905 to 0.865 g). 7/81

PALL MALL MENTHOL 100

Menthol - Test marketed in new air tight hermetically sealed "polyfoil pak." 10/74

PALL MALL EXTRA MILD 80

Low delivery (9 mg tar and 0.7 mg nicotine) with new Filtrona molded filter - Blend contains expanded tobacco (4%) - Similar to Lucky Ten 85 in most characteristics. 7/72

PALL MALL EXTRA LIGHT 85

85 mm cigarette similar to 80 mm version previously introduced in 7/72. 8/72

Tar (6 mg) and nicotine (0.7 mg) decreased - Filtrona filter with no ventilation was replaced by a standard CA filter with 45% ventilation. Tobacco weight and rod density were higher as result of elimination of ET from blend. 6/76

Brand name changed from Pall Mall Extra Mild 85 to Pall Mall Extra Light 85. No changes in smoking or physical characteristics. Tar delivery listed on pack as "7 mg or Less". 4/78

PALL MALL FILTER 80 (BOX)

Test marketed in hard box (80 mm) - Tar (19 mg) and nicotine (1.2 mg) deliveries. 5/71

Reintroduced - plain - test marketed in a red flip top box similar in color and design to the soft pack used for Pall Mall 85 Nonfilter cigarettes - High tar (24 mg) and nicotine (1.5 mg) deliveries correlating with a low filtration efficiency. 12/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

PALL MALL FILTER 85

Test marketed in soft pack (85 mm) - Tar (20 mg) and nicotine (1.3 mg) deliveries.	5/71
Reintroduced - plain - test marketed in a red soft pack similar to that used for Pall Mall 85 Nonfilter cigarettes - Filter RTD extremely low resulting in a low filtration efficiency - Tar (25 mg) and nicotine (1.6 mg) deliveries.	10/75
Tar (25 to 18 mg) and nicotine (1.6 to 1.2 mg) decreased as result of a longer (17 to 20 mm), more efficient filter.	12/76

PALL MALL FILTER 95

Introduced - 95 mm long cigarette in gold crush-proof box with hinge top - 15 mm CA filter.	3/66
Tar (6 mg) and nicotine (0.3 mg) reduced by increasing filter length (15 to 25 mm) and tipping paper (21 to 30 mm).	2/68
Brand discontinued - Replaced with 100 mm size in crush-proof box.	3/71

PALL MALL FILTER MENTHOL 95

Introduced - 95 mm long in new type package - mentholated - 15 mm CA filter.	11/65
Tipping paper increased (19 to 21 mm).	7/67
Tar (6 mg) and nicotine (0.2 mg) reduced - single package comprised of twin crush-proof boxes - one box contains ten mentholated and the other ten non-mentholated cigarettes.	2/68

PALL MALL FILTER 100

Test marketed - 100 mm long - Same as Pall Mall nonfilter with 15 mm CA filter.	10/64
TPM (5 mg) and nicotine (0.2 mg) decreased by an increase in filter efficiency.	11/66
Tipping paper increased 19 to 21 mm.	2/67
Reconstituted material increased 9 to 12%.	4/67
TPM (3 mg) decreased by increasing filter length (17 to 20 mm) and by increasing paper porosity.	5/67
Tar (2 mg) and nicotine (0.3 mg) reduced by increases in filter length (20 to 25 mm) and tipping paper (24 to 30 mm).	10/67
Circumference decreased (24.7 to 24.4 mm) and tobacco weight decreased, no change in tar or nicotine.	11/68
Tar (1 mg) and nicotine (0.1 mg) reduced by an increase in filter efficiency - High total and filter RTD noted.	10/70
Filter length (25 to 27 mm) and tipping paper (30 to 32 mm) increased - No change in smoke deliveries.	3/74
Addition of 3% ES to blend.	4/75

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

PALL MALL FILTER MENTHOL 100

Introduced - 100 mm mentholated cigarette with 15 mm CA filter.	10/66
Tipping paper increased (19 to 21 mm).	2/67
TPM (2 mg) decreased by increasing filter length (17 to 20 mm) and by increasing paper porosity.	5/67
Tar (2 mg) and nicotine (0.3 mg) reduced by increases in filter length (20 to 25 mm) and tipping paper (24 to 30 mm).	10/67
Tar (1 mg) and nicotine (0.1 mg) reduced by a blend change.	3/68
Circumference decreased (24.9 to 24.6 mm) and tobacco weight decreased, no change in tar and nicotine.	11/68
Tar (1 mg) and nicotine (0.1 mg) increased by changes in blend and heavier tobacco weight; smoke and filler menthol decreased.	10/69
Reconstituted tobacco decreased (22 to 17%).	10/69
Reconstituted tobacco increased (16 to 21%).	10/70
Addition of expanded RKS (11%) and expanded tobacco (3%) to blend - Reconstituted tobacco content reduced (21 to 7%). Alkaloids increased and fiber shape changed from X to Y - shape. Total and filter RTD increased.	5/72
Expanded tobacco removed from blend. Tar (1 mg) and nicotine (0.1 mg) decreased. Alkaloids and sugars lower.	2/75

PALL MALL FILTER 100 (BOX)

Plain - This new 100 mm cigarette in a crush-proof box replaces the previously marketed Pall Mall 95 cigarettes in a flat twin pack.	4/71

PALL MALL FILTER MENTHOL 100 (BOX)

Menthol - This new 100 mm cigarette in a crush-proof box replaces the previously marketed Pall Mall 95 cigarettes in a flat twin pack.	4/71

PALL MALL LIGHTS 100'S

Introduced - 100 mm low tar (12 mg) and nicotine (1.0 mg) brand characterized by 27 mm filter with 24% ventilation. Blend contains 8% expanded tobacco and 2% expanded stems.	7/78
Tar (10.6 to 8.1 mg), nicotine (0.94 to 0.74 mg) and CO (10.3 to 7.6 mg) reduced - increase in filter ventilation (28 to 47%) decrease in filter RTD (4.6 to 3.6).	2/81
Tar (8.4 to 10.9 mg), nicotine (0.8 to 1.0 mg), and CO (8 to 10 mg) increased due to reduced ventilation (53 to 36%) - total RTD increased (3.2 to 4.2).	7/83
CO (10 to 12 mg) delivery increased due to decreased filter ventilation (37 to 23%) - higher filter RTD (3.0 to 4.2 in. H_2O) correlated with higher efficiency (48 to 54%).	1/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

PALL MALL LIGHTS 100'S (continued)

Tar (10.3 to 9.3 mg) and CO (12.1 to 10.4 mg) decreased - ventilation increased (22 to 28%).	9/84

PALL MALL LIGHT MENTHOL 100'S

Introduced - 13 mg tar and 1.1 mg nicotine - Blend contains 12% expanded tobacco and 12% expanded stems. Cigarette has mechanically perforated cigarette paper and no ventilation.	4/79

PINNACLE 85

New 85 mm cigarette with 25 mm geometrically shaped filter similar to that on Vantage (RJR); however, filter is reversed.	9/70

PINNACLE MENTHOL 85

Test marketed - king size - dual filtered mentholated - tobacco blend markedly different.	4/65

SAFARI 100

Test marketed - 100 mm cigarette with 25 mm CA filter. New type package - pouch pack with fin seals.	11/73

SILVA THINS 100

100 mm cigarette with 20 mm CA filter; small circumference (22 mm) and 26% reconstituted material.	9/67
Reconstituted tobacco decreased (26 to 13%) and paper porosity increased - No change in smoke deliveries.	5/68
Blend changed as indicated by higher alkaloids and a markedly lower reducing sugar - The nicotine delivery (0.1 mg) was increased by this change.	7/70
Expanded stem added to blend at 10% level and reconstituted tobacco content reduced 18 to 11% - Filter changed from 20 mm paper to 25 mm CA. Lower tobacco weight and rod density noted. Tar decreased (2 mg).	2/72
Expanded stem content increased (10 to 16%).	3/73
Lower tar (16 to 12 mg) and nicotine (1.2 to 1.1 mg) deliveries resulting from introduction of filter ventilation (30%). Increases in filter length (25 to 27 mm) and tipping paper length (30 to 32 mm) were also noted.	8/77
The addition of 4% ET - ES increased from 8 to 16% resulting in a lower tobacco weight.	5/82

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

SILVA THINS MENTHOL 100

100 mm cigarette with small circumference - Similar to Silva Thins Plain in all characteristics except for menthol.	8/68
Blend changed as indicated by higher alkaloids and lower reducing sugars. Filler rod TPM increased (2 mg) and tar delivery increased (1 mg).	9/71
Filter length increased 20 to 25 mm - No change in smoke deliveries.	5/74
Lower tar (15 to 12 mg) and nicotine (1.1 to 1.0 mg) deliveries resulting from introduction of filter ventilation (30%). Increases in filter length (25 to 27 mm) and tipping paper length (30 to 32 mm) were also noted. Introduced expanded stem at 3% level.	8/77
Lower tar (12 to 7 mg) and nicotine (1.0 to 0.8 mg) deliveries correlating with a more efficient filter and a lower filler rod TPM.	5/79
Tar (7 to 11 mg) and nicotine (0.8 to 1.0 mg) increased by a decrease in filter ventilation.	8/79
Changed the filter from 27 mm paper to 27 mm CA - Tar (11 to 12 mg) and nicotine (0.9 to 1.1 mg) increased as result of less efficient filter.	5/80
The addition of 4% ET - ES increased from 8 to 16% resulting in a lower tobacco weight.	5/82

SUPER M MENTHOL 100

Test marketed - 100 mm mentholated cigarette in new air tight hermetically sealed "polyfoil pak" - Same pack as used on Safari 100.	5/74

SWEET CAPORAL 85

Introduced - king size with 20 mm CA filter.	10/65

TALL 120

Plain - Introduced 120 mm cigarette with 30 mm CA filter - White stripped cigarette paper - Tar (19 mg) and nicotine (1.4 mg) deliveries.	8/75
Tar (18 to 21 mg), nicotine (1.6 to 1.7 mg), and CO (20 to 21 mg) increased - ventilation reduced (36 to 30%).	9/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

TALL MENTHOL 120

Menthol - Introduced 120 mm cigarette with 30 mm CA filter - White striped cigarette paper - Tar (19 mg) and nicotine (1.4 mg) deliveries.	8/75
Tar (18 to 20 mg), nicotine (1.6 to 1.7 mg), and CO (17 to 21 mg) increased - ventilation decreased (38 to 31%).	9/83

TAREYTON 85

Paper component now being used, identified as chloride type.	4/63
TPM reduced by 3 mg - Nicotine delivery decreased by 0.1 mg. Total and filter RTD increased.	6/63
TPM and nicotine reduced (4 mg and 0.1 mg) - Change in paper component and porosity.	2/64
Fiber shape changed, I to cloverleaf.	8/64
Fiber denier changed, 5.0 to 4.0.	11/64
Fiber shape changed, cloverleaf to I.	5/65
Reconstituted tobacco content increased (10 to 14%).	10/65
Tipping paper increased 19 to 24 mm, paper porosity increased - TPM unchanged.	2/67
TPM (1 mg) decreased as result of change in filter length - Paper porosity decreased 14 to 20 seconds.	4/67
Reconstituted tobacco decreased 20 to 15%.	10/69
Addition of 3% ES to blend.	4/75
Tar decreased (19 to 17 mg) resulting from a change to a more porous cigarette paper.	7/76
Freon expanded tobacco introduced to the blend at the 9% level resulting in a lower tobacco weight. Change resulted in lower tar (16 to 14 mg) and nicotine (1.2 to 1.0 mg) deliveries.	8/78
Lower tar (15 to 13 mg) correlating with a higher RTD for the inner paper filter.	5/79

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

TAREYTON LIGHTS 85

Test marketed - an 85 mm low tar (8 mg) and nicotine (0.6 mg) cigarette. 27 mm dual filter with filter ventilation (44%) consisting of 17 mm CA outer filter and 10 mm paper inner filter. Inner filter contains carbon granules. Longest filter of any 85 mm cigarette on the market. 1/77

Tar (7 to 4 mg) and nicotine (0.7 to 0.3 mg) decreased resulting from an increase in filter ventilation and lower tobacco weight. Lower tobacco weight result of the addition of expanded tobacco (32%). 2/80

TAREYTON MENTHOL 85

Introduced on test market - Low delivery (7 mg tar and 0.6 mg nicotine), mentholated brand similar in most characteristics to Tareyton Lights 85 previously introduced. Contains no charcoal in filter. 9/77

TAREYTON 100

Introduced - 100 mm 20 mm dual filter. 4/67

TPM (2 mg) decreased as result of changing paper porosity. 5/67

Tar (2 mg) and nicotine (0.2 mg) reduced by increases in filter length (20 to 25 mm) and tipping paper (24 to 30 mm). 10/67

Filter length (20 to 25 mm) increased, no changes in smoke deliveries. 9/68

Tar (2 mg) and nicotine (0.1 mg) increased correlating with a reduction in filter efficiency. 11/70

Tar (2 mg) increased - Higher filler rod TPM and puff count. 12/71

Filter length (25 to 27 mm) and tipping paper (30 to 32 mm) increased. Lower tar (1 mg) noted. 10/73

Addition of 3% ES to blend. 4/75

Tar (19 to 17 mg) and nicotine (1.4 to 1.3 mg) decreased resulting from a change to a more porous cigarette paper. 7/76

Lower tar (17 to 15 mg) and nicotine (1.3 to 1.2 mg) deliveries resulting from decrease in filler rod TPM delivery. 5/78

Freon expanded tobacco introduced to the blend at the 9% level resulting in a lower tobacco weight. Change resulted in lower tar (15 to 13 mg) and nicotine (1.2 to 1.0 mg) deliveries. 8/78

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

A. AMERICAN BRANDS (continued)

TAREYTON LONG LIGHTS 100

Introduced - 100 mm low tar (8 mg) and nicotine (0.7 mg) cigarette. 27 mm dual filter with filter ventilation (37%) consisting of 17 mm CA outer filter and 10 mm paper inner filter. Inner filter contains carbon granules. Blend contains 7% expanded tobacco. 1/78

Tar (9 to 7 mg) and nicotine (0.8 to 0.7 mg) decreased resulting from an increase in filter ventilation (30 to 47%). 8/79

TAREYTON ULTRA LOW TAR MENTHOL 85

Test marketed - These new cigarettes deliver 2 mg tar and 0.1 mg nicotine - 25 mm CA filter with 75% ventilation and blend containing 34% expanded tobacco. 3/79

TENNYSON MENTHOL 85

Introduced - king size mentholated - carbon portion of dual filter has no gas phase activity. 10/65

TENNYSON MENTHOL 100

100 mm mentholated cigarette - menthol contained in gelatin capsules which release menthol when filter is pinched - similar filter to that in Waterford. 10/67

TWIST 100

Test marketed - 100 mm cigarette with lemon and menthol flavoring. Blend contains 10% expanded stems. 6/73

WATERFORD 80

Introduced - long size in crush proof box - novel filter containing two types of capsules in addition to charcoal - One of the capsule types contains water. 9/65

WATERFORD 85

Introduced - king size in soft pack - novel filter contains only one type capsule containing water - Charcoal also present. 2/66

WHITE LEAF 85

Test marketed - 85 mm filter cigarette with bleached all tobacco wrapper instead of cigarette paper. 6/67

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY

ARCTIC LIGHTS 85

Test marketed - 85 mm cigarette delivering 9 mg tar and 0.7 mg nicotine. High alkaloid blend containing 14% expanded stems - 25 mm CA filter with 33% ventilation. 9/78

ARCTIC LIGHTS 100

Test marketed - 100 mm cigarette delivering 10 mg tar and 0.8 mg nicotine. High alkaloid blend containing 14% expanded stems - 27 mm CA filter with 39% ventilation. 9/78

AVALON 85

Introduced - test market - king size, triple filter, in soft pack. 7/63

BARCLAY 80 (BOX)

Test marketed - ultra low tar (3.2 mg) - 27 mm CA filter containing 64% ventilation-blend contains 11% reconstituted tobacco, 18% expanded tobacco and 11% expanded stems. 10/80

Tar (3.0 to 1.3 mg), nicotine (0.17 to 0.08 mg) and CO (3.0 to 1.2 mg) reduced as result of increase in filter ventilation (66 to 84%) - rows of (MP) holes increased (2 to 3) - elimination of reconstituted tobacco, expanded stems - increase in expanded tobacco (17 to 36%) - lower tobacco weight (0.582 to 0.520 g) - increase in total alkaloids (1.71 to 2.67%). 2/81

Reconstituted tobacco (19%) and expanded stems (5%) added to blend - expanded tobacco decreased (32 to 10%) - tobacco weight (0.533 to 0.628 g) and rod density (0.203 to 0.240 g/cc) increased. 1/85

BARCLAY ULTRA LIGHTS 80 (BOX)

Introduced in Wichita, Kansas - delivers 1 mg tar and 0.1 mg nicotine - utilizes the same filter as the Barclay 80 - similar to Barclay 80 in most characteristics. 11/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY

BARCLAY 85

Test marketed - ultra low tar (2.5 mg) - 27 mm CA filter with 77% filter ventilation-blend contains 32% expanded tobacco and no reconstituted tobacco or expanded stems. 9/80

Reconstituted tobacco (19%) and expanded stems (5%) added to blend - expanded tobacco decreased (32 to 10%) - tobacco weight (0.550 to 0.678 g) and rod density (0.194 to 0.240 g/cc) increased. 1/85

BARCLAY MENTHOL 85

Introduced - nationally - 85 mm mentholated cigarette. Tar (1.4 mg) and nicotine (0.11 mg) - filter ventilation is achieved by a system of mechanical perforation and four longitudinal grooves along the filter. These cigarettes are similar in most characteristics to Barclay 85. 7/81

BARCLAY ULTRA LIGHTS 85

Introduced in Wichita, Kansas - delivers 1 mg tar and 0.1 mg nicotine - utilizes the same filter as the Barclay 85 - similar to Barclay 85 in most characteristics. 11/84

BARCLAY 100

Test marketed - ultra low tar (3.5 mg) - 27 mm CA filter with 69% filter ventilation - blend contains 26% expanded tobacco, 6% reconstituted tobacco and 12% expanded stems. 9/80

BARCLAY MENTHOL 100

Introduced - nationally - 100 mm mentholated cigarette. Tar (3.4 mg) and nicotine (0.28 mg) - filter ventilation is achieved by a system of mechanical perforation and four longitudinal grooves along the filter. These cigarettes are similar in most characteristics to Barclay 100. 7/81

BARCLAY ULTRA LIGHTS 100

Introduced in Wichita, Kansas - delivers 4 mg tar and 0.4 mg nicotine - utilizes the same filter as the Barclay 100 - similar to Barclay 100 in most characteristics. 11/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

BELAIR 85

Introduced - king size recessed filter, mentholated.	6/60
Lighter filter.	6/62
Flush-type filter.	6/62
TPM reduced, and paper porosity increased - Carbowax (5%) observed in the filter.	12/63
Filler alkaloids increased resulting in higher nicotine delivery.	1/64
Change in paper component, phosphate to citrate.	3/64
TPM reduced (2 mg).	8/64
Filler change reduced nicotine delivery by reducing total alkaloids.	9/64
Fiber shape changed from cloverleaf to X-shape.	3/66
TPM (1 mg) increased.	5/66
TPM (4 mg), nicotine (0.2 mg), and menthol in smoke (0.1 mg) decreased as result of change in paper porosity.	1/67
TPM (2 mg) decreased as result of blend change.	8/67
Tar (2 mg) reduced by increase in filter efficiency; fiber shape changed X to Y-shape.	3/68
Tar (1 mg), nicotine (0.2 mg), and menthol (0.5 mg) deliveries were reduced by changes in filter length (20 to 21 mm) and tipping paper (24 to 25 mm).	7/68
Reconstituted tobacco (7 to 11%) and RKS (12 to 16%) increased.	4/70
Addition of expanded RKS to blend replacing portion of regular RKS.	2/72
Lower total alkaloids (0.2%) and nicotine delivery (0.2 mg).	5/73

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

BELAIR 85 (continued)

Tipping paper length increased 25 to 26 mm - No other changes.	7/73
Menthol in smoke content increased by increasing filler menthol.	3/76
Filler alkaloids and total reducing sugars were lower. Nicotine delivery reduced by 0.1 mg.	5/76
Lower tar delivery (15 to 13 mg) resulting from a change to a more porous, mechanically perforated cigarette paper.	8/77
Lower tar (13 to 12 mg) due to decrease in filler rod TPM delivery.	5/78
The addition of expanded tobacco at the 6% level was observed. This change resulted in lower tobacco weight and rod density and an increase in total RTD.	10/78
Lower tar (12 to 8 mg) and nicotine (0.9 to 0.8 mg) deliveries resulting from the introduction of filter ventilation (26%) and an increase in tipping paper length (26 to 30 mm).	1/79
Tar (9 to 10 mg), nicotine (0.76 to 0.82 mg) and filler rod TPM (26.3 to 29.8 mg) increased resulting from less porous paper (7 to 15 sec.) with lower level of paper component (0.6 to 0.2%) - decreased total and filter RTD.	1/84

BELAIR 100

100 mm cigarette with 25 mm CA filter - Similar to Kool 100.	9/68
Coupon added to pack.	9/69
RKS decreased (17 to 13%).	10/69
Filter fiber shape changed - X-shape to Y-shape.	8/71
Addition of expanded RKS to blend replacing portion of regular RKS.	2/72
Change in filter length (25 to 27 mm) and tipping paper length (30 to 32 mm) - Tar (2 mg) and nicotine (0.1 mg) decreased.	12/72
Lower total alkaloids (0.1%) and nicotine delivery (0.1 mg).	5/73
Menthol in smoke content increased by increasing filler menthol	3/76
Lower tar delivery (16 to 14 mg) resulting from a change to a more porous, mechanically perforated cigarette paper.	8/77

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

BELAIR 100 (continued)

Lower tar (14 to 13 mg) due to decrease in filler rod TPM delivery. Lower tobacco weight and rod density were also noted.	5/78
The addition of expanded tobacco at the 6% level was observed. This change resulted in lower tobacco weight and rod density and an increase in total RTD.	10/78
Lower tar (13 to 8 mg) and nicotine (1.0 to 0.7 mg) deliveries resulting from the introduction of filter ventilation (33%) and an increase in tipping paper length (32 to 36 mm). A change to a less porous paper (7 to 12 seconds) and the removal of expanded tobacco in the blend was noted.	1/79
Addition of 10% expanded tobacco resulted in a lower tobacco weight and rod density. Tar (7 to 8 mg) and CO (10 to 11 mg) increased as a result of a decrease in filter ventilation (37 to 24%).	11/80
Expanded tobacco eliminated (10 to 0%) - increase in tobacco weight.	3/81
Tar (10.2 to 8.8 mg), nicotine (0.81 to 0.74) and CO (12.0 to 10.2 mg) decreased - increased ventilation (25 to 34%).	9/82
Tar (9.2 to 7.5 mg), nicotine (0.67 to 0.58 mg), CO (8.0 to 6.6 mg) and menthol (0.38 to 0.32 mg) decreased - increased ventilation (36 to 45%).	5/84

BREEZE 85

Introduced - test market - king size mentholated, in soft pack - similar to Kool.	5/63

CAPRI LONGS 100

100 mm mentholated cigarette with 22 mm CA filter - Lower smoke menthol than Kool 100.	9/67
Filter length (22 to 25 mm) and tipping paper length (27 to 30 mm) increased - Paper porosity changed (21 to 10 seconds) - No change in tar.	11/68

CAPRI 110

Introduced a new 110 mm cigarette 24.7 mm in circumference. Tar (19 mg) and nicotine (1.5 mg); 30 mm CA filter; 35 mm tipping paper.	3/75

CAPRI MENTHOL 110

Introduced a new 110 mm menthol cigarette 24.7 mm in circumference. Tar (19 mg) and nicotine (1.5 mg); 30 mm CA filter; 35 mm tipping paper.	5/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

CHEVRON 85

Introduced - test market - king size filter, in soft pack - similar to Viceroy. 3/63

CORONET 85 (NF)

Introduced - king size, nonfilter in new aluminum foil wrapper - similar to Raleigh plain end. 10/62

DOVER LONGS 100

Introduced - 100 mm cigarette with 22 mm CA filter. 2/67

Tar (4 mg) and nicotine (0.4 mg) reduced by changes in the filter and in the blend. 11/67

ELI CUTTER 70 (NF)

Introduced in Sacremento, CA and Denver, CO - delivers 21 mg tar and 1.3 mg nicotine - packed in a black pack. 11/84

ELI CUTTER 80 (BOX)

Introduced in Sacremento, CA and Denver, CO - delivers 15 mg tar and 1 mg nicotine - packed in a black pack - micro-mechanical ventilation system. 11/84

ELI CUTTER 85

Introduced in Sacremento, CA and Denver, CO - delivers 15 mg tar and 1 mg nicotine - packed in a black pack - micro-mechanical ventilation system. 11/84

FACT 85

Test marketed - CA filter with a pocket in the middle containing yellowish granules identified as Duolite - Tar (14 mg) and nicotine (1.0 mg) deliveries. 7/75

Cigarette paper changed to mechanically perforated with citrate as paper component. Tipping paper increased from 30 to 32 mm. 4/76

Introduction of Hauni ventilation (20%) resulted in lower tar delivery (14 to 11 mg). 7/77

Re-introduced with new packaging and lower tar (9 mg) and nicotine (0.7 mg) deliveries. Lower deliveries accomplished using more efficient filter and higher level of ventilation (30%). Continues to utilize "Duolite" granules in filter. 9/77

FACT MENTHOL 85

Menthol - test marketed CA filter with a pocket in the middle containing yellowish granules identified as Duolite. Tar (13 mg) and nicotine (0.9 mg) deliveries. Cigarette paper - mechanically perforated with citrate as paper component. 4/76

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

FACT MENTHOL 85

Introduction of Hauni ventilation (30%) resulted in lower tar delivery (13 to 11 mg). 7/77

Re-introduced with new packaging and lower tar (9 mg) and nicotine (0.7 mg) deliveries. Lower deliveries accomplished using a more efficient filter and higher level of ventilation (30%). Continues to utilize "Duolite" granules in filter. 9/77

FIESTA 80 (SOFT PACK)

Test marketed in southern California - manufactured in Mexico - delivers 14 mg tar and 0.6 mg nicotine. 3/85

FLAIR 100

Plain - 100 mm slim cigarette with 27 mm CA filter. 2/70

FLAIR MENTHOL 100

Menthol - 100 mm slim cigarette with 27 mm CA filter. 2/70

HALLMARK 85

Plain - New cigarette designed to give uniform smoke deliveries from first puff to last puff - The cigarette paper is coated with sodium chlorate at evenly spaced intervals. 9/70

HALLMARK MENTHOL 85

Menthol - New cigarette designed to give uniform smoke deliveries from first puff to last puff - The cigarette paper is coated with sodium chlorate at evenly spaced intervals. 9/70

HALLMARK 100

Introduced - test market - packaged in a slide and shell box with an automatic top opening device and delivers 24 mg tar. Blend contains no reconstituted tobacco or expanded stems; filter contains modified ion exchange resin (Duolite). 7/76

HALLMARK MENTHOL 100

Introduced - test market - a mentholated version of Hallmark 100 cigarettes. Delivers 23 mg tar. 8/76

KENTUCKY KING 85

Introduced, king size. "All tobacco filter." 5/60

Phosphate treated paper. 3/61

Increased TPM and nicotine deliveries achieved by slower static burning and increased alkaloids. 2/62

2050080916

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

KOOL 80 (BOX)

Introduced in flip-top box - Similar to Kool 85.	5/74

KOOL 85

New filter, lower RTD.	6/60
Filter fiber denier and weight decreased, no change in filtration efficiency.	6/61
Filter length increased (17 to 20 mm); higher filter efficiency.	3/62
Carbowax (5%) observed in the filter.	12/63
Filler alkaloids increased resulting in higher nicotine delivery.	2/64
TPM (2 mg) and nicotine deliveries decreased as result of change in paper additive, phosphate to citrate.	3/64
Nicotine delivery decreased by decreasing filler alkaloids.	12/64
Filler alkaloids increased.	4/65
Fiber shape changed from I to Y.	3/66
TPM (1 mg) increased.	6/66
TPM (2 mg), nicotine (0.2 mg), and menthol in smoke (0.1 mg) decreased by increasing paper porosity.	10/66
TPM (2 mg) decreased as result of a blend change.	8/67
Filter length (20 to 21 mm) and tipping paper (24 to 25 mm) increased, no change in smoke deliveries.	4/68
Tar (1 mg) and nicotine (0.1 mg) were reduced correlating with a lower filler rod TPM.	7/68
Menthol in smoke and filler increased.	1/69
Reconstituted tobacco (8 to 12%) and RKS (11 and 15%) increased.	4/70
Addition of expanded RKS to blend replacing portion of regular RKS.	2/72
Tar (0.6 mg) and nicotine (0.05 mg) lower due to faster static burning time.	10/72

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

KOOL 85 (continued)

Reconstituted tobacco increased 11 to 15%.	5/73
Tipping paper length increased 25 to 26 mm - No other changes.	7/73
Menthol in smoke content increased by increasing filler menthol.	3/76

KOOL INTERNATIONAL MENTHOL 95

Test marketed - This brand is packaged in the princess pack. Tar (10 mg). Ventilation consists of 1 row of Laser perforated holes. This cigarette previously available only in foreign markets.	8/79

KOOL MILDS 85

Introduced - Tar (16.5 mg) and nicotine (1.4 mg) - Very similar to Kool 85 except for total alkaloids. Regular and expanded RKS in blend (11%).	4/72
Marketed nationally in July, 1972, with longer filter (21 to 25 mm) and increased tipping paper length (25 to 30 mm). Increase of regular and expanded RKS (11 to 18%). These changes resulted in lower tar (3 mg) and nicotine (0.3 mg).	7/72
Lower total alkaloids (0.3%) and nicotine delivery (0.2 mg).	5/73
Blend change - Lower alkaloids and filler rod TPM resulting in lower tar (2 mg) and nicotine (0.2 mg). Lower puff count and higher RTD noted.	8/74
The addition of expanded tobacco at the 6% level was observed. This change resulted in lower tobacco weight and rod density and an increase in total RTD.	10/78
A lower tar (13 to 11 mg) achieved by introduction of filter ventilation (15%) and a change to a more porous cigarette paper. A blend change indicated by a high filler alkaloid content and lower reducing sugars.	10/79
Expanded tobacco eliminated (11 to 0%) - increase in tobacco weight.	3/81
Freon expanded tobacco has been added (11%) resulting in lower tobacco weight (0.692 to 0.670 g).	7/81

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

KOOL MILDS 100

Test marketed - A brand extension of Kool Milds 85. Tar (13 mg) and nicotine (1.2 mg) with 19% ventilation. Blend contains 7% expanded tobacco. Ventilation achieved by a band of electrostatic perforation.	8/79
Expanded tobacco eliminated (11 to 0%) - increase in tobacco weight.	3/81
Freon expanded tobacco has been added (11%) resulting in lower tobacco weight (0.884 to 0.829 g).	7/81

KOOL NATURALS 85

Introduced - test market - delivers 14 mg tar. Similar to Fact 85 and Vanguard 85 cigarettes. Filter containing Duolite granules described as an "Actron" filter.	8/76

KOOL 100

100 mm mentholated cigarette with 22 mm CA filter.	9/67
Changes in blend, filter length (22 to 25 mm), and tipping paper (27 to 30 mm) did not alter smoke deliveries.	8/68
Menthol in smoke and filter increased.	1/69
Addition of expanded RKS to blend replacing portion of regular RKS.	2/72
Change in filter length (25 to 27 mm) and tipping paper length (30 to 32 mm) - Lower tar (1 mg) and nicotine (0.1 mg).	2/73
Reconstituted tobacco content increased (11 to 15%).	5/73
Menthol in smoke content increased by increasing filler menthol.	3/76
Lower tar (18 to 17 mg) resulting from decrease in filler rod TPM delivery. An increase in total RTD was also observed.	5/78
Level of reconstituted tobacco increased from 10 to 16% and level of expanded stems decreased from 17 to 14%.	9/78
Lower tar (16 to 15 mg) and nicotine (1.2 to 1.1 mg) deliveries resulting from a change to a more porous cigarette paper (22 to 12 sec.).	12/78
The addition of 8% expanded tobacco was noted - This change resulted in a lower tobacco weight and rod density	9/80

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

KOOL LIGHTS 85

Name changed from Kool Super Lights 85. Ventilation system changed to two rows of mechanical perforation. These cigarettes are lower in tar (8.6 mg) because of a more efficient filter and higher ventilation level. 9/81

KOOL LIGHTS 100

Name changed from Kool Super Lights 100. Ventilation system changed to two rows of mechanical perforation. These cigarettes are lower in tar (12.3 mg) because of a more efficient filter and higher ventilation level. 9/81

Tar (11 to 10 mg), nicotine (0.9 to 0.8 mg) and CO (10 to 8 mg) decreased due to increased ventilation (28 to 38%). 5/83

KOOL SUPER LIGHTS 85

Introduced - 85 mm mentholated cigarette - low tar (9 mg) and nicotine (0.7 mg) resulted primarily from filter ventilation (25%) and low available TPM filler. Mechanically perforated cigarette paper. Typical Brown & Williamson blend. Tar (9 mg) and nicotine (0.8 mg) listed on pack. 7/77

Tar (9 to 6 mg) and nicotine (0.8 to 0.6 mg) deliveries were decreased by increasing the filter ventilation and lowering the tobacco weight. Lower tobacco weight result of addition of 6% expanded tobacco. Paper porosity changed from 7 to 13 seconds. Data listed on pack as tar (7 mg) and nicotine (0.7 mg). 7/79

KOOL SUPER LIGHTS 100

Introduced - 100 mm mentholated cigarette - low tar (9 mg) and nicotine (0.7 mg) achieved by filter ventilation (35%) and low available TPM filler. Typical Brown & Williamson blend. Tar (9 mg) and nicotine (0.8 mg) listed on pack. 7/77

Addition of 10% expanded tobacco resulted in a lower tobacco weight and rod density. 11/80

Expanded tobacco eliminated (10 to 0%) - increase in tobacco weight - tar and nicotine data printed on packs has been removed. 3/81

Tar (8.1 to 9.4 mg), nicotine (0.65 to 0.72 mg) and CO (9.9 to 12.2 mg) increase - reduced filter ventilation (32 to 24%). 4/81

KOOL ULTRA 85

Introduced - test market - tar and nicotine deliveries advertised as 2 mg and 0.3 mg, respectively. The filter system is similar to that of the Barclay with mechanical perforation and four longitudinal grooves along the filter. 9/81

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

KOOL ULTRA 100

Introduced - test market - tar and nicotine deliveries are 5.7 mg and 0.53 mg, respectively. The filter system is similar to that of the Barclay with mechanical perforation and four longitudinal grooves along the filter. 9/81

LIFE 85

TPM (7 mg) and nicotine (0.5 mg) increased by decrease in filter efficiency - Filter changed from 25 mm paper to 25 mm CA. 2/66

TPM (5 mg) and nicotine (0.3 mg) decreased as a result of increase in filter efficiency. Filter changed from 25 mm CA to dual filter 12.5 mm CA and 12.5 mm paper. 12/66

TPM (2 mg) decreased as result of increased filter efficiency - Filter changed to an 18 mm/7 mm (paper/CA). 2/67

TPM (4 mg) and nicotine (0.2 mg) increased as result of a change in filter construction 12.5/12.5 mm (paper/CA) which resulted in decrease in filter efficiency. 3/67

LIFE FILTER 100

Lowest tar delivery of any 100 mm - Dual filter, paper inner plug, and cellulose acetate outer plug - Tar (10 mg) and nicotine (0.8 mg) data are listed on pack. 6/70

Filter changed from 25 mm dual (paper/CA) to 27 mm CA. Total and filter RTD increased. 8/73

LYME 85

New flavor - lime-menthol product - Tar (14 mg) and nicotine (0.9 mg) low for B & W product. 10/71

PHOENIX 120

Plain - Introduced 120 mm cigarette with 30 mm CA filter with a brown cigarette paper containing azo dyes - Circumference 21 mm - Tar (19 mg) and nicotine (1.4 mg) deliveries. 7/75

PHOENIX MENTHOL 120

Menthol - Introduced 120 mm cigarette with 30 mm CA filter with a brown cigarette paper containing azo dyes - Circumference 21 mm - Tar (19 mg) and nicotine (1.4 mg) deliveries. 7/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

RALEIGH 70 (FILTER)

Test marketed in southern California - manufactured in Mexico - delivers 16 mg tar and 0.8 mg nicotine.	3/85

RALEIGH FILTER 85

Lighter filter with same efficiency.	4/61
Carbowax (5%) observed in the filter.	12/63
Filler alkaloids increased resulting in higher nicotine delivery.	1/64
TPM (4 mg) and nicotine (0.2 mg) decreased as result of change in paper component, phosphate to citrate.	6/64
Fiber shape changed from I to Y.	3/66
TPM (2 mg) increased.	6/66
TPM (2 mg) decreased, paper porosity increased and cigarette length decreased.	2/67
Reconstituted tobacco increased, 6 to 9%.	3/67
Tar (1 mg) reduced by changes to a more porous paper and in tipping paper (24 to 25 mm).	4/68
Filter length increased (20 to 21 mm).	7/68
Reconstituted material increased, 5 to 9%.	9/68
Paper porosity changed (11 to 17 seconds) - No change in tar.	1/69
Tar (2 mg) and nicotine (0.2 mg) decreased, lower alkaloids and tobacco weight observed.	8/69
RKS increased (7 to 18%).	10/69
Addition of expanded RKS to blend replacing portion of regular RKS.	3/72
Tipping paper length increased 25 to 26 mm - No other changes.	7/73
Expanded tobacco eliminated (10 to 0%) - increase in tobacco weight - tar and nicotine data printed on pack has been removed.	3/81
Tobacco weight decreased (0.778 to 0.732 g) due to addition of 4% Freon expanded tobacco to the blend.	11/83
Tar (13.6 to 13.1 mg) and CO (16.5 to 13.8 mg) decreased - change to a more porous cigarette paper (23 to 12 sec.).	1/85

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

RALEIGH LIGHTS 85

Introduced - 85 mm version of Raleigh 85 with lower tar (13 mg) and nicotine (0.9 mg). It has 25 mm CA filter and 30 mm tipping paper.	4/73
Brand name changed from Raleigh Extra Milds 85 to Raleigh Lights 85. No other changes were noted.	10/76
Decrease in tar delivery (12 to 10 mg) resulting from introduction of filter ventilation (24%) and a change to a more efficient filter. Changed to a high alkaloid blend and replaced mechanically perforated cigarette paper with inherently porous paper.	4/78
Tar (9 to 8 mg) and nicotine (0.9 to 0.8 mg) deliveries lower correlating with a lower filler rod TPM.	3/79
12% Freon expanded tobacco added to blend.	5/83

RALEIGH LIGHTS 100

Introduced - 100 mm version of Raleigh Lights 85 with 10 mg tar and 0.9 mg nicotine. 27 mm CA filter with 24% ventilation.	8/78
Tar (7.8 to 9.8 mg), nicotine (0.68 to 0.81 mg) and CO (10.7 to 14.4 mg) increased - decrease in filter ventilation (34 to 19%) - higher RTD (4.9 to 5.6).	2/81
Tar (10 to 9 mg), nicotine (0.9 to 0.8 mg) and CO (13 to 11 mg) decreased due to increased ventilation (26 to 32%).	5/83
12% Freon expanded tobacco added to blend resulting in lower tobacco weight (0.892 to 0.826 g/cc) and rod density (0.251 to 0.230 g/cc). Fiber denier changed (2.6/Y to 3.2/Y) resulting in lower filter RTD (4.1 to 3.3 in. H_2O) - decrease in filtration efficiency (59 to 52%). Tar increased (9 to 10 mg).	1/84

RALEIGH 100

100 mm cigarette with 25 mm CA filter.	8/69
Coupon on pack.	9/69
Tar (1 mg) increased correlating with a change in paper porosity (13 to 25 seconds).	3/71
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Tar (1.5 mg) and nicotine (0.1 mg) lower - Lower tobacco weight and rod density noted.	5/72
Change in filter length (25 to 27 mm) and tipping paper length (30 to 32 mm) - Tar (1 mg) and nicotine (0.1 mg) decreased.	12/72
Lower tar (17 to 16 mg) resulting from decrease in filler rod TPM delivery.	5/78
Addition of expanded tobacco at the 6% level correlating with a lower tobacco weight and rod density. Lower tar (17 to 16 mg) and filler rod TPM deliveries noted.	4/79

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

RALEIGH 100 (continued)

Lower tar (16 to 15 mg) and nicotine (1.2 to 1.1 mg) resulting from a change to a more porous cigarette paper. 1/80

Tar (7.8 to 9.8 mg), nicotine (0.68 to 0.81 mg) and CO (10.7 to 14.4 mg) increased - decrease in filter ventilation (34 to 19%) - higher RTD (4.9 to 5.6). 2/81

Expanded tobacco eliminated (10 to 0%) - increase in tobacco weight - tar and nicotine data printed on pack has been removed. 3/81

4% Freon expanded tobacco added to blend resulted in lower tobacco weight (0.886 to 0.831 g) and rod density (0.250 to 0.233 g/cc). 1/84

RICHLAND 85

Introduced - contains 25 cigarettes per pack - delivers 15 mg tar and 1.2 mg nicotine - similar to Viceroy 85. 9/83

RICHLAND LIGHTS 85

Introduced - contains 25 cigarettes per pack - delivers 11 mg tar and 0.8 mg nicotine. 5/85

RICHLAND MENTHOL 85

Introduced - contains 25 cigarettes per pack - delivers 15 mg tar, 1.1 mg nicotine, and 0.5 mg menthol - similar to Kool 85. 9/83

ST. JAMES COURT 85

Introduced in Portland, Oregon - utilizes a dual cellulose acetate filter which consists of a 7 mm formed Filtrona section and a 20 mm "Actron" section - the Actron section contains a 20 mm cellulose acetate tube - the blend is not typical of Brown & Williamson products. 11/84

ST. JAMES COURT MENTHOL 85

Introduced in Portland, Oregon - utilizes a dual cellulose acetate filter which consists of a 7 mm formed Filtrona section and a 20 mm "Actron" section - the "Actron" section contains a 20 mm cellulose acetate tube - the blend is similar to Kool Lights. 11/84

ST. JAMES COURT 100 (BOX)

Introduced in Portland, Oregon - utilizes a dual cellulose acetate filter with a 7 mm formed Filtrona section and a 20 mm "Actron" section - the "Actron" section contains a 20 mm cellulose acetate tube - the blend is not typical of Brown & Williamson products. 11/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

ST. JAMES COURT MENTHOL 100 (BOX)

Introduced in Portland, Oregon - utilizes a dual cellulose acetate filter with a 7 mm formed Filtrona section and a 20 mm "Actron" section - the "Actron" section contains a 20 mm cellulose acetate tube - the blend is similar to Kool Lights. 11/84

SEVENTY 70

Plain - test marketed with mechanically perforated cigarette paper and 17 mm CA filter - 10 mg tar and 0.7 mg nicotine. 6/76

SEVENTY MENTHOL 70

Menthol - test marketed with mechanically perforated cigarette paper and 17 mm CA filter - 10 mg tar and 0.7 mg nicotine. 6/76

SPIRIT 85

Test marketed - 85 mm cigarette delivering 8 mg tar and 0.9 mg nicotine - This new brand has a high efficiency, 25 mm CA filter with 30% ventilation. 10/78

SPIRIT 100

Test marketed - 100 mm cigarette delivering 9 mg tar and 1.0 mg nicotine - This new brand has a high efficiency, 27 mm CA filter with 27% ventilation. 10/78

SUEDES 120

Plain - Introduced 120 mm cigarette with 30 mm CA filter with a brown cigarette paper colored with azo dyes - Tar (17 mg) and nicotine (1.2 mg) deliveries - Circumference 21 mm. 9/75

SUEDES MENTHOL 120

Menthol - Introduced 120 mm cigarette with 30 mm CA filter with a brown cigarette paper colored with azo dyes - Tar (19 mg) and nicotine (1.3 mg) deliveries - Circumference 21 mm. 9/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

TRAMPS 85

Plain - Introduced - Light brown cigarette paper colored with caramelized sugar. Tar (19 mg) and nicotine (1.1 mg) deliveries.	9/74
Introduced with regular cigarette paper. Lower tar and nicotine deliveries than previous sample.	10/74
Tar (19 to 16 mg) and nicotine (1.3 to 1.1 mg) decreased. Filler rod TPM decreased (36 to 31 mg). Smoke deliveries change as result of paper change.	4/75

TRAMPS MENTHOL 85

Menthol - Introduced - Light brown cigarette paper colored with caramelized sugar. Tar (19 mg) and nicotine (1.1 mg) deliveries.	9/74
Introduced with regular cigarette paper. Lower tar and nicotine deliveries than previous sample.	10/74
Tar (19 to 17 mg) and nicotine (1.1 to 1.0 mg) decreased. Smoke deliveries change as result of paper change.	4/75

TRAMPS 110

Introduced plain 110 mm cigarette with light brown cigarette paper colored with caramelized sugar. Circumference 24.6 mm, 30 mm CA filter, and 35 mm tipping paper.	4/75

TRAMPS MENTHOL 110

Introduced menthol 110 mm cigarette with light brown cigarette paper colored with caramelized sugar. Circumference 24.6 mm, 30 mm CA filter, and 35 mm tipping paper.	4/75

VANGUARD 85

Introduced - Similar to Fact 85 cigarettes previously introduced - CA filter with pocket in the middle containing yellowish granules identified as Duolite - Tar (14 mg) and nicotine (1.0 mg) deliveries.	8/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

VANGUARD MENTHOL 85

Introduced - test market - mentholated version of Vanguard 85 - Delivers 14 mg tar.	7/76

VICEROY 85

"Deep Weave," more efficient filter.	8/60
Lighter, slightly less efficient filter resulted in slight increase in TPM and nicotine delivery.	6/61
Total RTD reduced 20 mm H_2O by changes in plug RTD, rod circumference, tobacco weight, and paper porosity.	8/62
Filter contains carbowax (5%).	5/63
Filter length has increased from 17 to 20 mm.	8/63
Filler alkaloids increased resulting in a higher nicotine delivery.	1/64
TPM (3 mg) and nicotine deliveries decreased, a result of a more porous cigarette paper.	2/64
TPM (2 mg) increased.	6/66
TPM (2 mg) decreased as result of blend change.	8/67
TPM (1 mg) reduced by changes to a more porous paper and in tipping paper (24 to 25 mm).	4/68
Reconstituted material increased, 6 to 9%.	9/68
Tar increased (1 mg) - Change in paper porosity (11 to 18 seconds) noted.	5/69
Tar (1 mg) and nicotine (0.1 mg) decreased, amount of paper component in cigarette paper increased.	7/69
RKS increased (11 to 14%).	10/69
RKS increased (13 to 18%).	10/70
Addition of expanded RKS to blend replacing portion of regular RKS.	3/72
Tipping paper length increased 25 to 26 mm - No other changes.	7/73

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

VICEROY 85 (continued)

Package design change - Tar (15 to 17 mg) and nicotine (1.0 to 1.1 mg) deliveries increased. Blend change observed.	6/75
Tar (15.0 mg) and nicotine (1.0 mg) deliveries returned to level prior to package design change.	10/75
Lower tar (16 to 14 mg) and nicotine (1.1 to 1.0 mg) deliveries achieved by change to a more efficient filter. Changes in total and filter RTD and filter fiber denier also noted.	3/78
Addition of expanded tobacco at the 6% level was observed. First time a Brown & Williamson product containing expanded tobacco was obtained from the market. Decrease in tobacco weight along with lower tar (14 to 13 mg) and nicotine (1.0 to 1.9 mg) deliveries resulting from the addition of expanded tobacco.	9/78
Tar increased (13.8 to 14.7 mg) due to decreased filtration efficiency (48 to 40%) and change in fiber denier (3.0 to 3.7).	3/83
Tar (15.5 to 14.2 mg) and CO (16.0 to 14.2 mg) decreased - change to a more porous cigarette paper (23 to 12 sec.).	1/85

VICEROY EXTRA MILD 85

Introduced - Very similar to Viceroy Lights 85 previously test marketed by Brown & Williamson.	4/74
Tar (14 to 11 mg) and nicotine (1.0 to 0.8 mg) decreased by the introduction of Hauni ventilation at the 23% level. A decrease in total RTD was also noted.	1/77
Blend change resulting in higher filler rod TPM delivery. Changed to a more efficient filter and discontinued use of mechanically perforated cigarette paper. No change in tar or nicotine deliveries observed. Changed from Hauni ventilation to mechanically perforated tipping paper.	4/78

VICEROY LIGHTS 85

Introduced - Tar (12.5 mg) and nicotine (1.0 mg), 25 mm CA filter - 30 mm tipping paper - Blend contains expanded RKS.	4/72

VICEROY RICH LIGHTS 85

Introduced - Tar (9 mg) and nicotine (0.8 mg) with a 25 mm CA filter and 36% ventilation. Similar to Viceroy Extra Milds 85 cigarettes.	8/78
12% Freon expanded tobacco added to blend.	5/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

VICEROY 100

100 mm cigarette with 22 mm CA filter.	10/67
Tar (2 mg) and nicotine (0.1 mg) reduced by changes in filter length (22 to 25 mm), tipping paper (27 to 30 mm) and to a more porous paper (20 to 12 seconds).	8/68
Tar (1 mg) increased. Change in paper porosity (11 to 20 seconds) noted.	5/69
Tar (2 mg) and nicotine (0.2 mg) decreased, change in paper porosity (21 to 14 seconds).	6/69
RKS increased (11 to 14%).	10/69
Tar (2 mg) and nicotine (0.1 mg) were reduced correlating to lower filler rod TPM - A decrease in alkaloids and higher reducing sugars were observed - An increase in RKS was noted.	9/70
RKS increased (13 to 18%).	10/70
Tar (1 mg) increased correlating with change in paper porosity (12 to 22 seconds).	3/71
Addition of expanded RKS to blend replacing portion of regular RKS.	3/72
Change in filter length (25 to 27 mm) and tipping paper length (30 to 32 mm) - Tar (2 mg) and nicotine (0.2 mg) decreased.	12/72
Package design change. Tar (16 to 17 mg) and nicotine (1.1 to 1.2 mg) deliveries increased. Blend change observed.	6/75
Decrease in tar (18 to 16 mg) and nicotine (1.3 to 1.1 mg) deliveries resulting from a change to a more porous cigarette paper.	11/77
Addition of expanded tobacco at the 7% level correlated with lower tobacco weight and rod density.	5/80
Tar (14 to 16 mg), nicotine (1.0 to 1.1 mg), filler rod TPM (27 to 29 mg) and total alkaloids (1.60 to 1.72%) increased. 9% ventilation added to brand - CO decreased (16 to 14 mg).	3/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

B. BROWN AND WILLIAMSON TOBACCO COMPANY (continued)

VICEROY RICH LIGHTS 100

Introduced - 100 mm cigarette delivering 8 mg tar and 0.8 mg nicotine. 27 mm CA filter with 40% ventilation. This is a brand extension of Viceroy Rich Lights 85 cigarettes.	9/78
Tar value (8 to 9 mg) changed on pack to comply with FTC Report.	5/82
12% Freon expanded tobacco added to blend.	5/83
Tar (11.5 to 10.2 mg) and CO (11.2 to 9.6 mg) decreased - ventilation increased (20 to 29%).	9/84
Tar (10.2 to 11.6 mg) and CO (9.6 to 11.4 mg) increased - decreased ventilation (29 to 21%).	3/85

WINGS FILTER 85

85 mm cigarette - 20 mm CA filter - contains 25% reconstituted material.	3/67

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP

ADAM 85

Introduced with 20 mm CA filter - Brown colored cigarette paper - paper colored with caramelized sugar.	7/71
Paper component in cigarette paper changed from citrate to phosphate - Tar (3 mg) and nicotine (0.3 mg) deliveries increased by this change. Package also redesigned.	10/72

ADAM 100

100 mm version of the 85 mm cigarette previously introduced - 25 mm CA filter.	10/72

CHESTERFIELD 70 (NF)

Paper porosity increased reducing TPM by 4 mg and nicotine delivery by 0.1 mg.	10/62
Alkaloids reduced by 0.1%.	12/62
Tar (22.7 to 19.4 mg), nicotine (1.36 to 1.14 mg) and CO (12.9 to 11.0 mg) reduced - change to more porous cigarette paper (22 to 14 sec.).	2/81
Tar (19 to 18 mg) decreased due to use of perforated porous cigarette paper (7 sec.) with higher level of paper component (0.3 to 1.7%).	1/84

CHESTERFIELD 101

Test marketed - 101 mm long cigarettes with 20 mm CA filter.	8/67
Tar (2 mg) reduced by increase in tipping paper (24 to 27 mm).	2/68
Tar (3 mg) reduced by changes in blend and to a more porous paper (20 to 11 seconds).	7/68
Coupon added to pack.	4/69
Reconstituted tobacco removed from blend (20 to 0%) - RKS increased (5 to 11%).	10/69
Reconstituted tobacco added to blend (0 to 19%) - RKS lowered (11 to 6%) - Tar (3 mg) and nicotine (0.2 mg) decreased.	6/70
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Filter length (20 to 25 mm) and tipping paper (27 to 30 mm increased. Fiber denier change - No change in smoke deliveries.	7/72
Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density.	6/73

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

CHESTERFIELD 101 (continued)

Package changed to be similar to package of Chesterfield nonfilter.	10/74
Fiber shape changed (Y to I).	3/75
Tar (1 mg) lowered by increasing filter and tipping paper lengths. Fiber denier changed from 4.5 to 3.5.	1/76
Brand name changed from Chesterfield 101 to Chesterfield Filter Longs; cigarette length decreased (100.5 to 98.6 mm). Lower tar (1 mg) and nicotine (0.2 mg) deliveries were noted. Expanded stem level increased from 4 to 10%.	9/76
Brand name changed back to Chesterfield 101. Cigarette length and smoke deliveries returned to previous level.	11/76
An increase in the filter length (27 to 30 mm) and tipping paper length (32 to 35 mm) resulted in lower tar (15.3 to 14.1 mg), nicotine (1.10 to 1.04 mg), and CO (16.6 to 15.5 mg) deliveries.	8/81

CHESTERFIELD FILTER 85

Introduced - King size soft pack - slow burning rate resulting in high TPM and nicotine deliveries.	4/66
Coupon added to pack.	4/69
Package changed - Similar to Chesterfield nonfilter.	1/75
Lower tar (18 to 14 mg) and nicotine (1.1 to 1.0 mg) deliveries resulting from a change to a more porous cigarette paper and a decrease in tobacco weight.	7/78
Tar (14 to 12 mg), nicotine (1.0 to 0.9 mg), and CO (14 to 12 mg) decreased due to increased filter length (21 to 25 mm) and tipping paper length (26 to 30 mm).	9/83

CHESTERFIELD MENTHOL FILTER 85

Introduced - king size in soft pack - slow burning rate resulting in high TPM and menthol deliveries.	4/66
TPM (3 mg), nicotine (0.1 mg), and menthol in smoke (0.1 mg) decreased as result of changes in cigarette paper and filter efficiency.	3/67
Coupon added to pack.	4/69
Addition of reconstituted tobacco (0 to 19%), RKS decreased (15 to 3%) - Tar (3 mg) and nicotine (0.1 mg) decreased.	6/70

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

CHESTERFIELD 85 (NF)

Paper porosity increased, reducing TPM by 8 mg and nicotine delivery 0.3 mg.	10/62
RTD increased (3.6 to 3.9 inches of H_2O).	8/65
TPM (2 mg) and nicotine (0.1 mg) deliveries increased.	12/65
Circumference reduced, resulting in lower tobacco weight.	5/67
Tar (3 mg) reduced by changes in type paper component, phosphate to citrate.	2/68
Coupon added to pack.	4/69
Tar (2 mg) and nicotine (0.1 mg) decreased - Reconstituted tobacco increased (6 to 11%) and RKS added to blend (4%).	9/71
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density.	6/73
Expanded stem level increased from 4 to 10%.	9/76
Tar (24.8 to 23.7 mg), nicotine (1.59 to 1.45 mg) and CO (16.0 to 13.5 mg) reduced - change to a more porous cigarette paper (22 to 13 sec.).	1/81
Tar (23.0 to 20.2 mg) and CO (15.4 to 12.4 mg) decreased due to use of perforated cigarette paper that is more porous (14 to 7 sec.) with higher level of paper component (0.4 to 1.4%).	11/83
Tar (20 to 22 mg) and CO (12 to 16 mg) increased due to a change to a less porous paper (7 to 15 sec.) with decreased level of paper component (1.4 to 0.4%).	5/84

DECADE 85

Introduced - Test market - Lower tar (6 mg) and nicotine (0.5 mg) deliveries achieved by filter ventilation. Filter contains a 14 mm polyethylene tube insert similar to the one used on L & M Flavor Lights 85.	10/76
Filter changed by removing polyethylene tube insert resulted in lower filter ventilation and higher filter RTD. No change in smoke deliveries.	10/80

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

DECADE MENTHOL 85

Introduced - low tar (6 mg) and nicotine (0.5 mg) achieved by high filter ventilation (59%). Has same filter and blend as Decade 85 cigarettes. Tar (5 mg) and nicotine (0.5 mg) listed on pack. 3/77

Filter changed by removing polyethylene tube insert resulted in lower filter ventilation and higher filter RTD. No change in smoke deliveries. 10/80

DECADE 100

Introduced - 100 mm cigarette - 5 mg tar and 0.4 mg nicotine with a 27 mm CA filter and 65% ventilation. High level of citrate on the cigarette paper. Filter contains a polyethylene tube insert which is similar in construction to filters used on Decade 85 and L & M Lights 85 and 100 cigarettes. 8/78

DEVON 85

Introduced - King size mentholated cigarette with "Lark-type" filter - Filter has gas phase activity. 5/64

DORADO 85

Test market - New Mexico - delivers 14 mg tar and 1 mg nicotine. 7/83

DUKE 85

Dropped from C.I. History of Brand in C.I. 12/65. 1/66

EAGLE 85

Plain - test marketed - similar to L & M 85 cigarettes. Sell for 5¢ less per pack than any other 85 mm product. 1/76

EAGLE MENTHOL 85

Menthol - test marketed - similar to L & M 85 cigarettes. Sell for 5¢ less per pack than any other 85 mm product. 1/76

EVE LIGHT 100

Introduced 100 mm cigarette delivering 9 mg tar and 0.7 mg nicotine. 27 mm CA filter with 45% ventilation and a high level of citrate on the cigarette paper. Filter contains a polyethylene tube insert which is similar in construction to filters used on Decade 85 and L & M Lights 85 and 100 cigarettes. 8/78

Replaced by Eve Slim Lights 100 (Box). 6/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

EVE SLIM LIGHTS 100 (BOX)

Replaces Eve Light 100 - delivers 12 mg tar and 1 mg nicotine - 22.7 circumference. 6/83

EVE LIGHT MENTHOL 100

Introduced 100 mm menthol cigarette delivering 9 mg tar and 0.7 mg nicotine. 27 mm CA filter with 45% ventilation and a high level of citrate on the cigarette paper. Filter contains a polyethylene tube insert which is similar in construction to filters used on Decade 85 and L & M Lights 85 and 100 cigarettes. 8/78

Replaced by Eve Slim Lights Menthol 100 (Box). 6/83

EVE SLIM LIGHTS MENTHOL 100 (BOX)

Replaces Eve Light Menthol 100 - delivers 12 mg tar and 1 mg nicotine - 22.7 circumference. 6/83

EVE 100

Plain - 100 mm cigarettes in new pack with floral design - Tipping paper also has floral design. 6/70

Addition of expanded RKS to blend replacing a portion of regular RKS. 3/72

Change in filter length (20 to 25 mm) and fiber denier (3.4 to 4.5) - Change in alkaloids, reducing sugars, and filler rod TPM - Lower tobacco weight and rod density noted. 4/72

Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density. 6/73

Cigarette length increased (97.8 to 98.7 mm). 10/74

Fiber shape changed (Y to I). 3/75

Design changed on tipping paper, package and carton. 5/75

Tipping paper length increased from 30 to 32 mm. 1/76

Tar (2 mg) and nicotine (0.1 mg) decreased by increasing filter length from 25 to 27 mm and increasing paper porosity. 3/76

Expanded stem level increased from 4 to 10%. 9/7[illegible]

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

EVE MENTHOL 100

100 mm cigarette in new pack with floral design - Tipping paper also has a floral design.	6/70
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Change in filter length (20 to 25 mm) and fiber denier (3.3 to 4.6). No change in smoke deliveries.	12/72
Reconstituted tobacco content increased (22 to 26%) - Resulted in lower total alkaloids, tar (1 mg) and nicotine (0.1 mg).	5/73
Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density.	6/73
Fiber denier (3.4 to 4.5) and fiber shape (Y to I) changed. Filter weight increased. No change in smoke deliveries.	4/75
Design changed on tipping paper, package and carton.	5/75
Tipping paper length increased from 30 to 32 mm.	1/76
Tar (3 mg) and nicotine (0.1 mg) decreased by increasing filter length (25 to 27 mm) and increasing paper porosity. Menthol in smoke decreased (0.6 to 0.5 mg).	4/76
Expanded stem level increased from 4 to 10%.	9/76

EVE 120

Plain - test marketed - 21 mm circumference and filter ventilation of 50% - White cigarette paper and packaged in a crush-proof box.	3/76

EVE MENTHOL 120

Menthol - test marketed - 21 mm circumference and filter ventilation of 50% - White cigarette paper and packaged in a crush-proof box.	3/76

L & M 80 (BOX)

Introduced - delivers 25 mg tar.	12/57
Tobacco weight decrease.	12/62
Tobacco weight decrease (0.707 to 0.675 g) - tar decreased (16.5 to 14.3 g).	7/78
Tar decreased (13.2 to 12.4 mg) due to filter length increase (20 to 21 mm).	1/82

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

L & M 85

Citrate to phosphate paper.	10/60
Lighter, dull cellulose acetate filter on all sizes, no changes in efficiency.	9/60-3/61
Faster burning, more porous paper, reduced TPM (5 mg) and nicotine (0.2 mg).	9/62
Alkaloids reduced gradually.	9-12/62
TPM reduced by 1.5 mg - Alkaloids and nicotine delivery also reduced.	4/63
Filler alkaloids increased slightly and fiber denier changed from 2.5 to 2.0 on all sizes.	4/65
Fiber shape (cloverleaf to I) and fiber denier (2.0 to 2.3) changed.	9/65
TPM and nicotine deliveries increased - Filler alkaloids also increased.	12/65
TPM increased - less efficient filter resulting from change in fiber shape and denier.	4/66
Filter length increased, 17 to 20 mm.	10/66
Tar (2 mg) and nicotine (0.1 mg) decreased by lower filler rod TPM.	10/67
Tar (2 mg) and nicotine (0.1 mg) decreased by lower filler rod TPM.	12/67
Nicotine delivery (0.1 mg) increased by higher alkaloids.	7/70
Tar (1 mg) and nicotine (0.1 mg) decreased. Lower tobacco weight and rod density observed.	1/71
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density.	6/73
Filter length (20 to 21 mm) and tipping paper (24 to 25 mm) increased. Fiber denier (3.5 to 3.0) and fiber shape (Y to I) changed. Alkaloids decreased. Nicotine delivery lower (1.3 to 1.2 mg).	3/75
Tipping paper length increased from 25 to 26 mm.	1/76
Expanded stem level increased from 4 to 10%.	9/76

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

L & M 85 (continued)

A change in paper component from phosphate to citrate reduced the tar (18 to 17 mg) and filler rod TPM (34 to 31 mg). Faster static burning time also noted. 2/77

Lower tar (17 to 15 mg) and nicotine (1.1 to 0.9 mg) deliveries resulting from decrease in tobacco weight and a more porous cigarette paper. Levels of expanded tobacco and expanded stems in blend were increased. 3/78

Increase in filter length (21 to 25 mm) and tipping paper (26 to 30 mm). Filter fiber denier (3.0/Y to 3.7/Y) and paper porosity (13 to 16 sec.) were changed. 12/81

Lower total RTD resulted due to change to mechanically perforated cigarette paper. Increased paper component. 3/83

Decreased paper component (1.4 to 0.5%) and less porous paper (7 to 12 sec.) - decreased puff count (7.6 to 6.6) - Lower tobacco weight (0.650 to 0.619 mg) and rod density (0.223 to 0.210 g/cc) were noted - higher CO delivery (12 to 13 mg). 5/85

L & M FLAVOR LIGHTS 85

Introduced - test market - Low tar (8 mg) and nicotine (0.6 mg) deliveries achieved by filter ventilation. Blend contains no reconstituted tobacco or added stem. Filter contains a 14 mm polyethylene tube originating at the tobacco rod end. 9/76

Filter changed by removing polyethylene tube insert resulted in lower filter ventilation and higher filter RTD. No change in smoke deliveries. 10/80

L & M LONG LIGHTS 100

Test marketed - Low tar (8 mg) and nicotine (0.7 mg) deliveries achieved by filter ventilation (56%). Blend contains no reconstituted tobacco or added stem. 27 mm CA filter contains a polyethylene tube insert. Tar listed on package as "Only 8 mg tar." 3/77

Filter change by removing polyethylene tube insert and increasing fiber denier. No change in smoke deliveries. 10/80

Increase in filter length from (27 to 30 mm) and a change to a smaller fiber denier were noted. No change in smoke deliveries. 11/80

L & M LONG LIGHTS MENTHOL 100

Introduced - Tar (8 mg) and nicotine (0.8 mg) - Very similar in characteristics to L & M Long Lights 100. 6/80

Increase in filter length (27 to 30 mm). No change was observed in the smoke deliveries. 8/81

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

LARK 85 (continued)

Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density.	6/73
Tar delivery increased (2 mg) - Filler rod TPM increased indicating blend change.	4/74
Tar delivery (2 mg) decreased correlating with a lower filler rod TPM.	1/76
Tar increased (1 mg) correlating with an increase in filler rod TPM.	5/76
Expanded stem level increased from 4 to 10%.	9/76
Lower tar (17 to 15 mg) and nicotine (1.3 to 1.1 mg) deliveries resulting from a change to a more porous paper and a lower tobacco weight. An increase in expanded tobacco (5 to 7%) and a decrease in the reconstituted material (16 to 14%) correlated with the lower tobacco weight. Circumference decreased from 25.0 to 24.7 mm.	6/79
Tipping paper length increased (25 to 30 mm) - less porous cigarette paper (7 to 15 sec.) - Tar decreased (14.0 to 13.5 mg).	1/82
Filter length increased (20 to 25 mm) - outer plug of plug-space-plug increased - decrease in tobacco weight.	6/82

LARK 100

Introduced - 100 mm cigarette with CA-space-CA filter, with space containing approximately 88 mg of carbon.	9/68
Tar (1 mg) increased correlating to a change in paper porosity and slower static burning time.	4/71
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Alkaloids and reducing sugars higher - Nicotine delivery increased (0.1 mg).	5/72
Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density.	6/73
Cigarette length decreased 100 to 99 mm.	9/73
Expanded stem level increased from 4 to 10%.	9/76
Increases in filter length (20 to 25 mm) and tipping paper length (28 to 30 mm) resulted in a slight reduction in tar delivery (18.7 to 18.2 mg). A lower tobacco weight was also noted.	9/77
Lower tar (18 to 16 mg) and nicotine (1.3 to 1.2 mg) deliveries resulting from a change to a more porous cigarette paper and a lighter tobacco weight. Increase in expanded tobacco (5 to 7%).	6/79
Tipping paper length increased (30 to 35 mm) - less porous cigarette paper (7 to 15 sec.) - decrease in tar (14.7 to 14.2 mg).	1/82
Tobacco weight (0.799 to 0.765 g) decreased - increased filter length (25 to 30 mm).	7/82

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

L & M 100

100 mm cigarette with 20 mm CA filter.	7/67
Tar (2 mg) and nicotine (0.2 mg) reduced by lower filler rod TPM.	10/67
Tar (1 mg) and nicotine (0.1 mg) reduced by a change to a more porous paper.	12/67
Tipping paper increased (24 to 27 mm), no change in smoke deliveries.	3/68
Nicotine delivery (0.1 mg) increased by higher alkaloids.	7/70
Tar (1 mg) and nicotine (0.1 mg) decreased. Lower tobacco weight and rod density observed.	1/71
Filter length (20 to 25 mm) and tipping paper (27 to 30 mm) increased. Fiber denier changed resulting in less efficient filter. Tar (1 mg) and nicotine (0.1 mg) increased.	5/71
Addition of expanded RKS to blend replacing a portion of tobacco weight and rod density.	3/72
Expanded tobacco added to blend (7%) resulting in lower tobacco weight and rod density.	6/73
Cigarette length decreased 100 to 99 mm.	9/73
Fiber shape changed (Y to I).	3/75
Tar (2 mg) decreased resulting from increased filter and tipping paper lengths. A more porous cigarette paper was also noted.	1/76
Expanded stem level increased from 4 to 10%.	9/76
Lower tar (17 to 15 mg) and nicotine (1.1 to 1.0 mg) deliveries resulting from decrease in tobacco weight and a change to a more porous cigarette paper. Levels of expanded tobacco and expanded stems in blend were increased.	3/78
Tar (14.3 to 13.2 mg) and nicotine (1.06 to 0.99 mg) reduced - increase in tipping paper length (32 to 35 mm).	2/81
Filter length increased (27 to 30 mm) - higher filter RTD (2.5 to 2.9) - decrease in tobacco weight (0.16 to 0.18 g).	6/81
11% Freon expanded tobacco added to blend.	6/83
Tobacco weight (0.754 to 0.700) and rod density (0.227 to 0.208 g/cc) decreased due to increased amount of freon expanded tobacco in the blend (17 to 28%).	7/83
Tar (13.2 to 12.4 mg) and CO (14.7 to 13.0 mg) deliveries decreased due to the use of perforated cigarette paper that is more porous (14 to 7 sec.) with a higher level of paper component (0.4 to 1.4%).	11/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

LARK II 85

Test marketed - low tar (8 mg) and nicotine (0.5 mg) cigarette with a 25 mm CA filter with ventilation (47%). The CA filter has a pocket containing carbon granules (14 mg). Filter similar in construction to the ones used by Brown & Williamson on products containing Duolite granules in filters. Tar listed on pack as "Only 8 mg." 6/77

LARK LIGHTS 85

Test marketed - 85 mm cigarette delivering 8 mg tar and 0.6 mg nicotine - 25 mm CA filter containing charcoal granules with 40% ventilation. Blend contains 19% Freon expanded tobacco. 11/78

The elimination of filter ventilation resulted in an increase in tar (7.1 to 12.8 mg), nicotine (0.70 to 0.99 mg) and CO (6.9 to 13.8 mg) deliveries. A change in filter construction from carbon in a pocket to carbon in a plug-space-plug filter was noted. An increase in carbon content (7 to 64 mg) and a more porous cigarette paper (12 to 7 sec.) were noted. Expanded tobacco decreased (26 to 15%) and reconstituted tobacco increased (10 to 16%). This resulted in an increase in tobacco weight (0.589 to 0.640 g). The packaging was changed from white to red. These cigarettes are now similar to Lark 85. 8/81

LARK LIGHTS 100

Test marketed - 100 mm cigarette delivering 7 mg tar and 0.6 mg nicotine - 25 mm CA filter containing charcoal granules with 40% ventilation. Blend contains 19% Freon expanded tobacco. 11/78

The elimination of filter ventilation resulted in an increase in tar (7.2 to 13.1 mg), nicotine (0.65 to 1.08 mg) and CO (6.9 to 13.1 mg) deliveries. A change in filter construction from carbon in a pocket to carbon in a plug-space-plug filter was noted. An increase in carbon content (6 to 65 mg) and a more porous cigarette paper (12 to 6 sec.) were noted. Expanded tobacco decreased (26 to 15%) and reconstituted tobacco increased (10 to 16%). This resulted in an increase in tobacco weight (0.717 to 0.802 g). The packaging was changed from white to red. These cigarettes are now similar to Lark 100. 8/81

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Tobacco weight (0.794 to 0.762 g) decreased - increased filter length (25 to 30 mm). 7/82

MASTERPIECE 85

Introduced - King size in soft pack with "pipe tobacco blend" - High TPM and nicotine. 6/65

OASIS 85

Dropped from C.I. History of Brand in C.I. 12/65. 1/66

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

L & M MENTHOL 100

Introduced - 100 mm mentholated cigarette with 20 mm CA filter.	2/67
Tar (3 mg) decreased as tipping paper length was increased.	11/67
Nicotine delivery (0.1 mg) increased by higher alkaloids.	7/70
Tar (2 mg) and nicotine (0.1 mg) decreased correlating with lower filler rod TPM.	11/71
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Filter length (20 to 25 mm) and tipping paper (27 to 30 mm) increased. No change in filter efficiency or smoke deliveries.	10/72
Cigarette length decreased 100 to 99 mm.	9/73
Fiber shape changed (Y to I).	4/75
Lower tar (2 mg) and nicotine (0.1 mg) as result of increase in filter length and tipping paper length. Lower tobacco weight and reducing sugars content noted.	6/76
Expanded stem level increased from 4 to 10%.	9/76
Lower tar (17 to 15 mg) delivery observed. A change to a more porous cigarette paper and a reduction in tobacco weight were also noted.	7/78

L & M SUPERIOR 85

Test market - Texas - delivers 14 mg tar and 1 mg nicotine - packaged in a black pack.	7/83

LARK 85

Introduced - king size in soft pack - new triple filter containing special carbon granules with gas phase activity.	4/63
Carbon content increased.	4/64
TPM (2 mg) and nicotine (0.1 mg) deliveries decreased.	9/66
Fiber shape changed (I to Y) - no change in smoke deliveries.	1/68
Addition of expanded RKS to blend replacing a portion of regular RKS.	3/72
Reduction in gas phase activity - lower carbon content.	3/72
Alkaloids and reducing sugars higher - Nicotine delivery increased (0.1 mg).	5/72

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

OMNI LUXURY LIGHTS MENTHOL 100

Introduced - test market - Tar (9.2 mg) and nicotine (0.74 mg). The ventilation system consists of one row of laser perforation.	7/81

ST. MORITZ 100

Plain - Test marketed - Previously marketed by Larus & Bro. Blend contains both expanded tobacco and stems. Tar delivery is 18 mg.	7/74
Tar decreased from 19 to 16 mg.	8/76
Filter length increased 25 to 27 mm.	7/77
Tar decreased 16 to 13 mg; change to a more porous, mechanically perforted cigarette paper.	7/78

ST. MORITZ MENTHOL 100

Menthol - Test marketed - Previously marketed by Larus & Bro. Blend contains both expanded tobacco and stems. Tar delivery is 18 mg.	7/74
Lower tar (17 to 14 mg) and nicotine (1.1 to 1.0 mg) deliveries resulting from an increase in filter length (25 to 27 mm) and a change to a more porous cigarette paper (22 to 13 seconds).	2/78
Replaced inherently porous cigarette paper with mechanically perforated paper. Decrease in tar (14.4 to 13.7 mg).	7/78

STRIDE 85

Value entry product distributed in Syracuse and Rochester, New York and Omaha, Nebraska. The pack is silver and burgundy. Similar to L & M 85 in smoke deliveries.	7/84

STRIDE 100

Value entry product distributed in Syracuse and Rochester, New York and Omaha, Nebraska. The pack is silver and burgundy. Similar to L & M 100 in smoke deliveries.	7/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

C. LIGGETT GROUP (continued)

VELLO 85

Plain - Test marketed 21 mm CA filter with a single row of ventilation holes having a center core of 8.0 Y-shape fibers and an outer periphery of 3.0 I-shape fibers - Filter system developed by Dr. Vello Norman - Tar (12 mg) and nicotine (0.8 mg) deliveries. 10/75

Cigarette re-engineered - Lower tar and nicotine as a result of a change in filter construction and blend formulation. 11/76

VELLO MENTHOL 85

Menthol - Test marketed 21 mm CA filter with single row of ventilation holes having a center core of 8.0 Y-shape fibers and an outer periphery of 3.0 I-shape fibers - Filter system developed by Dr. Vello Norman - Tar (12 mg) and nicotine (0.8 mg) deliveries. 10/75

Cigarette re-engineered - Changes in filter construction and blend formulation same as for Vello 85 cigarettes. 11/76

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY

ASPEN MENTHOL 85

Test marketed - Low tar (9 mg) and nicotine (0.8 mg) with a 25 mm CA filter containing 33% ventilation. High level of citrate in a fast burning cigarette paper. Porous tipping paper with perforated plug wrap. 7/79

ASPEN MENTHOL 100

Test marketed - Low tar (9 mg) and nicotine (0.8 mg) with a 27 mm CA filter containing 40% ventilation. High level of citrate in a fast burning cigarette paper. Porous tipping paper with perforated plug wrap. 7/79

BEECH-NUT 85 (NF)

Introduced - nonfilter, king size similar to Old Gold Straights. 7/61

BISTRO 85

Introduced - test market - Delivers 11 mg tar and 1.02 mg nicotine. The filter system uses micro-mechanical perforation. 9/81

BISTRO MENTHOL 85

Introduced - test market - Delivers 11 mg of tar, 1.01 mg of nicotine, and 0.35 mg menthol. The filter system uses micro-mechanical perforation. 9/81

CENTURY GREAT LENGTHS 100

100 mm cigarette with 20 mm CA filter. Name and warning label printed on cellophane - no identification on package. 9/67

Tar (2 mg) reduced by increase in tipping paper (24 to 30 mm). 2/68

Tar (1 mg) and nicotine (0.1 mg) decreased - change in filter - a new 25 mm dual filter with carbon noted. 3/69

DANVILLE 85

Introduced - king size filter cigarette. 4/66

DANVILLE MENTHOL 85

Introduced - mentholated cigarette with 20 mm CA filter. 8/66

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

DUNCAN 85 (NF)

Introduced - king size nonfilter - filler has a larger cut than normal domestic cigarettes.	9/65
Plastic mouthpiece added to cigarette - no filtration from mouthpiece.	11/65

HELMAR 80

80 mm cigarette - 17 mm CA filter - contains no RKS or reconstituted material.	4/67

HERITAGE 85

Introduced - test market - Delivers 10.9 mg tar and 0.93 mg nicotine. The ventilation system consists of a band of micro-mechanical perforation. These cigarettes are similar to Bistro 85, Rebel 85, and Maverick 85.	11/81

HERITAGE 100

Introduced - test market - Delivers 11.6 mg tar and 1.01 mg nicotine. The ventilation system consists of a band of micro-mechanical perforation. These cigarettes are similar to Rebel 100 and Maverick 100.	11/81

KENT 80

Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight and rod density and higher total RTD - Also, lower puff count, tar and nicotine deliveries noted.	12/72
Filter length (20 to 21 mm) and tipping paper length (24 to 25 mm) increased. No change in smoke deliveries noted.	4/77
Decrease in tar delivery (15 to 13 mg) resulting from introduction of filter ventilation (17%). The new diluted filter is referred to on the pack as the Micronite II filter.	6/78

KENT 85

Reconstituted tobacco first observed - Lighter filter with same efficiency.	5/61
Less porous paper with no effect on TPM or nicotine deliveries.	11/61
Alkaloids reduced by 0.1%.	10/63
Fiber shape changed cloverleaf to I.	4/64
Filter length increased 17 to 20 mm.	8/64

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

KENT 85 (cont.)

Alkaloids and nicotine delivery increased slightly.	7/65
Alkaloids and nicotine delivery increased.	9/65
TPM increased 1 mg.	4/66
TPM decreased 1 mg by an increase in paper porosity.	6/67
Tipping paper increased 24 to 25 mm.	3/69
Reconstituted tobacco content increased (8 to 12%).	4/69
RKS decreased (8 to 4%).	10/69
Reconstituted tobacco increased 10 to 17%.	10/70
Reconstituted tobacco increased (16 to 18%); RKS decreased (6 to 2%).	9/71
RKS decreased 2 to 0%.	10/71
Alkaloids and reducing sugars increased - Nicotine delivery increased (0.1 mg).	5/72
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density and higher total RTD - Also, lower puff count, tar and nicotine deliveries noted.	12/72
Filter length increased (20 to 21 mm). Lower tobacco weight and rod density noted.	7/76
Lower tar (17 to 13 mg) and nicotine (1.1 to 1.0 mg) resulted from the introduction of filter ventilation (27%). New ventilated filter is referred to on pack as the Micronite II filter.	6/77
Decrease in tar delivery (13 to 12 mg) resulting from an increase in filter ventilation.	11/78

KENT MENTHOL 85

Test marketed - Different from Kent 85 plain in many characteristics.	5/71

KENT 100

Introduced - 100 mm cigarette with 20 mm CA filter.	4/67
Tar (1 mg) reduced by increasing tipping paper (24 to 27 mm).	11/67

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

KENT 100 (cont.)

Tar (2 mg) and nicotine (0.1 mg) reduced by increasing tipping paper (27 to 30 mm).	1/68
Tar (1 mg) and nicotine (0.1 mg) reduced by a change to a more porous paper.	5/68
RKS decreased (8 to 4%).	10/69
Reconstituted tobacco increased 10 to 17%.	10/70
Fiber shape changed from X-shape to Y-shape - Filter weight decreased - Tar increased (1 mg).	9/71
Reconstituted tobacco increased 16 to 18% - RKS decreased 6 to 2%.	9/71
RKS decreased 2 to 0%.	10/71
Alkaloids and reducing sugars increased - Nicotine delivery increased (0.1 mg).	5/72
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density, puff count, and higher total RTD - Also, lower tar and nicotine deliveries noted.	12/72
Tipping paper length increased 30 to 32 mm - tar (1 mg) and nicotine (0.1 mg) decreased.	11/74
Cigarette length (99.2 to 98.3 mm) decreased. Tobacco weight (0.87 to 0.84 g) decreased.	5/75
Filter length (25 to 27 mm) increased. No change in smoke deliveries.	6/75
Cigarette length increased (98.9 to 99.3 mm).	8/76
Lower tar (19 to 15 mg) and nicotine (1.3 to 1.1 mg) resulted from a change to a more efficient filter (42-52%) and more porous cigarette paper. Higher total and filter RTD's noted.	6/77
Lower tar delivery (15 to 13 mg) resulting from introduction of filter ventilation (30%). Change to a less efficient filter was also noted. The new ventilated filter is referred as the Micronite II filter.	7/77
Decrease in filter ventilation and change to a less porous cigarette paper resulted in an increase in tar delivery (13.6 to 14.5 mg).	12/77

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

KENT 100 (continued)

Decrease in tar delivery (14 to 13 mg) resulted from an increase in filter ventilation. Decrease in total RTD was noted.	8/78

KENT MENTHOL 100

100 mm mentholated cigarette similar to Kent 100.	6/70
Filter fiber shape changed from X-shape to Y-shape - Filter weight decreased.	8/71
Reconstituted tobacco increased 16 to 18% - RKS decreased 6 to 2%.	9/71
RKS decreased 2 to 0%.	10/71
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density, and puff count. Also, lower tar and nicotine deliveries noted.	12/72
Tipping paper length increased (30 to 32 mm) - Lower tar (1 mg) and nicotine (0.1 mg).	1/75
Cigarette length (99.1 to 98.3 mm) decreased. Tobacco weight (0.84 to 0.82 g) decreased.	5/75
Filter length increased from 25 to 27 mm.	5/76
Cigarette length increased (98.3 to 99.2 mm)	8/76
Introduction of filter ventilation at the 25% level resulted in lower tar delivery (17 to 15 mg).	8/78

KENT III 85

Test marketed - 85 mm cigarette delivering 4 mg tar and 0.4 mg nicotine. Characterized by high alkaloid blend (2.8%) containing 19% Freon expanded tobacco. 25 mm dual CA filter with 63% ventilation.	11/78
Tar (3 to 2 mg) data changed on pack to comply with FTC Report.	4/82
Tar and nicotine deliveries removed from the pack.	7/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

KENT III 100

Brand extension of Kent III 85. Tar (5 mg) and nicotine (0.5 mg) deliveries. Brand characterized by a high alkaloid blend containing 19% expanded tobacco and a dual 27 mm CA filter with 51% ventilation. Ventilation achieved by 6 rows of mechanically perforated holes.	10/79
Tar (5 to 4 mg) and nicotine (0.6 to 0.5 mg) data changed on pack to comply with FTC Report.	4/82
Tar and nicotine deliveries removed from the pack.	7/83

KENT III 100 (BOX)

Nationally introduced - similar to Kent III 100 (Soft Pack).	11/84

KENT GOLDEN LIGHTS 85

Plain - Introduced porous tipping paper with perforated plug wrap - Longest tipping paper (32 mm) of any 85 mm cigarette - Tar (9 mg) and nicotine (0.8 mg) deliveries.	11/75
Tar (9 to 8 mg) and nicotine (0.8 to 0.7 mg) deliveries decreased by increasing filter ventilation and paper porosity. Filler alkaloids content decreased.	3/76
Cigarette length increased (84.2 to 84.8 mm). Decrease in rod density and total RTD.	12/76
Cigarette length decreased (84.7 to 84.1 mm); lower tobacco weight also noted.	7/78
Lorillard changed the name of Kent Golden Lights 85 to Golden Lights 85. The product is the same; only the name has changed.	10/78
Tar (8 to 7 mg) and nicotine (0.8 to 0.7 mg) values changed on pack to comply with FTC Report.	5/82
Name changed back to Kent Golden Lights 85.	6/83

KENT GOLDEN LIGHTS MENTHOL 85

Test marketed - similar to Golden Lights 85 - Tar (8 mg) and nicotine (0.7 mg) deliveries.	6/76
Lower tar delivery (8.7 to 7.4 mg) resulting from an increase in filter ventilation.	11/77
Lorillard changed the name of Kent Golden Lights Menthol 85 to Golden Lights Menthol 85. The product is the same; only the name has changed.	10/78

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

KENT GOLDEN LIGHTS MENTHOL 85 (continued)

Name changed back to Kent Golden Lights Menthol 85.	6/83
Tar (8 to 9 mg) and CO (8 to 9 mg) deliveries increased due to higher level of paper component (1.3 to 2.1%) - higher filler menthol (1.6 to 2.0 mg) correlated with higher smoke menthol (0.28 to 0.36 mg).	3/84
Paper component decreased (2.1 to 1.6%) - no changes in smoke deliveries.	9/84
Tar (8.7 to 8.0 mg) and CO (9.0 to 7.4 mg) decreased - increased filter ventilation (34 to 43%).	1/85

KENT GOLDEN LIGHTS 100

Introduced - low tar (9 mg) and nicotine (0.8 mg) with 27 mm CA filter containing ventilation (40%). High level of paper component in a fast burning cigarette paper. Porous tipping paper with perforated plug wrap. Tar (10 mg) and nicotine (0.9 mg) listed on pack.	5/77
Lorillard changed the name of Kent Golden Lights 100 to Golden Lights 100. The product is the same; only the name has changed.	10/78
Nicotine value (0.7 to 0.8 mg) changed on pack to comply with FTC Report.	5/82
Name changed back to Kent Golden Lights 100.	6/83

KENT GOLDEN LIGHTS MENTHOL 100

Introduced - Similar to the Golden Lights 100 cigarettes.	5/77
Lorillard changed the name of Kent Golden Lights Menthol 100 to Golden Lights Menthol 100. The product is the same; only the name has changed.	10/78
Tar data changed on pack (8 to 7 mg) to comply with FTC Report.	6/82
Name changed back to Kent Golden Lights Menthol 100.	6/83

L.T. BROWN 120

Plain - Introduced 120 mm cigarettes - 30 mm CA filter. Tar (20 mg) and nicotine (1.5 mg) deliveries. Dark brown cigarette paper with pin-stripe lines.	6/75

L.T. BROWN MENTHOL 120

Menthol - Introduced 120 mm cigarettes - 30 mm CA filter. Tar (20 mg) and nicotine (1.5 mg) deliveries. Dark brown cigarette paper with pin-stripe lines.	6/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

LUKE 85

Test marketed - new 85 mm "full flavor" cigarette - Blend contains expanded tobacco (7%). 1/74

MAVERICK 85

Test marketed - High alkaloid blend (2.0%) and nicotine delivery (1.6 mg) for Lorillard product - 20 mm CA filter. 11/71

Alkaloids decreased - Sugars increased - Tar (2 mg) and nicotine (0.1 mg) reduced - Filler rod TPM reduced (3 mg). 5/72

Test marketed in Washington State - 85 mm - tar (10.3 mg) and nicotine (0.86 mg) - filter ventilation by band of MP holes. 5/81

MAVERICK 100

Test marketed in Washington State - 100 mm, tar (10.6 mg) and nicotine (0.91 mg) - filter ventilation by band of MP holes. 5/81

MAX SLIM LIGHTS 100 (BOX)

Introduced - Tar (10 mg) and nicotine (0.9 mg) - Two rows mechanical perforation (32% ventilation) - similar to Virginia Slims Lights 100. 2/82

MAX SLIM LIGHTS MENTHOL 100 (BOX)

Introduced - Tar (10 mg), nicotine (0.9 mg), and menthol (0.39 mg) - Two rows of mechanical perforation (32% ventilation) similar to Virginia Slims Lights Menthol 100. 2/82

MAX 120

Plain - Introduced 120 mm cigarette with 30 mm CA filter - White cigarette paper - Tar (16 mg) and nicotine (1.2 mg) deliveries. 7/75

MAX MENTHOL 120

Menthol - Introduced 120 mm cigarette with 30 mm CA filter - White cigarette paper - Tar (16 mg) and nicotine (1.2 mg) deliveries. 7/75

NEWPORT 80 (BOX)

Filter length (17 to 20 mm) and tipping paper length (22 to 24 mm) increased. Tar (18 to 16 mg) and nicotine (1.2 to 1.1 mg) deliveries decreased. 2/75

NEWPORT 80 (NON-MENTHOL-BOX)

Test marketed in Penn. - 80 mm, non-mentholated, tar (11.8 mg) and nicotine (1.04 mg) - filter ventilation by band of MP holes. 4/81

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

NEWPORT 85

Less porous paper with no effect on TPM or nicotine delivery.	12/61
Alkaloids decreased by 0.2%.	6/63
Increases observed in TPM and nicotine deliveries - Blend change indicated by increases in total alkaloids.	12/63
Nicotine delivery and filler alkaloids increased.	4/65
TPM and nicotine increased - less efficient filter - change in filter fiber denier.	1/66
Alkaloids and nicotine delivery decreased.	7/66
Filter length increased (17 to 20 mm).	1/67
RKS content increased 8 to 12%.	4/67
Tar (1 mg) and nicotine (0.1 mg) lower, no other changes noted.	7/68
Reconstituted material increased, 8 to 13%.	9/68
Package design change.	10/68
Color of tipping paper changed from white to cork.	11/68
Tar (2 mg), nicotine (0.1 mg), and menthol delivery (0.15 mg) decreased, amount of paper component increased, faster static burning time, filler menthol lower.	8/69
Blend change, higher alkaloids and lower sugars - more porous cigarette paper. No change in smoke deliveries.	11/69
Reconstituted tobacco increased 11 to 16% - RKS decreased 9 to 4%.	10/70
Reconstituted tobacco increased 16 to 18% - RKS decreased 6 to 0%.	9/71
Fiber shape changed X to Y.	11/71
Tar delivery (1.5 mg) and filler rod TPM (2 mg) decreased - Alkaloids increased.	5/72
Tar (1 mg) and nicotine (0.2 mg) increased - Changes noted in total alkaloids and paper porosity. Fiber shape and denier change correlating with a more efficient filter.	8/72
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density and higher total RTD - Also, lower puff count, tar and nicotine deliveries noted.	12/72

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

NEWPORT 85 (continued)

Tar (2 mg) and nicotine (0.1 mg) deliveries were higher - Increase in filler rod TPM and filler alkaloids content.	5/76
Filter length (20 to 21 mm) and tipping paper length (24 to 25 mm) increased.	12/76

NEWPORT 85 (NON-MENTHOL-BOX)

Test marketed in Penn. - 85 mm, non-mentholated, tar (13 mg) and nicotine (1.08 mg) - filter ventilation by band of MP holes.	4/81

NEWPORT 100

Introduced - 100 mm mentholated cigarette with 20 mm CA filter.	6/67
Tar (3 mg) and nicotine (0.2 mg) reduced by increase in tipping paper length (24 to 30 mm).	7/68
Filter length increased 20 to 25 mm, no change in smoke deliveries.	9/68
Tar (3 mg) increased - Filter length (20 to 25 mm) and fiber denier change - Also, tipping paper changed from white to cork.	11/68
Menthol in smoke and filler decreased.	9/69
Blend change, higher alkaloids and lower sugars - more porous cigarette paper - No change in smoke deliveries.	11/69
Reconstituted tobacco increased 11 to 16%.	10/70
RKS decreased 7 to 3%.	9/71
RKS decreased 3 to 0%.	10/71
Tar (2 mg) and nicotine (0.3 mg) were increased by changes in total alkaloids and paper porosity - Fiber shape and denier changed.	8/72
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density, puff count, and higher total RTD - Also, lower tar and nicotine deliveries noted.	12/72
Blend change - Higher alkaloids and increased filler rod TPM delivery resulting in higher tar (1 mg) and nicotine (0.1 mg).	7/74
Tipping paper length (30 to 32 mm) increased. Tar (20 to 19 mg) and nicotine (1.4 to 1.3 mg) deliveries decreased.	2/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

NEWPORT 100 (continued)

Cigarette length (99.2 to 98.3 mm) decreased. Lower tobacco weight noted. No change in smoke deliveries.	4/75
Increase in tar (1 mg) and nicotine (0.1 mg) resulting from a change to a less porous paper - Filter length increased from 25 to 27 mm.	11/75
Tar (2 mg) and nicotine (0.1 mg) deliveries were higher - Increase in filler rod TPM and filler alkaloids content.	5/76
Cigarette length increased (98.2 to 99.3 mm).	12/76

NEWPORT 100 (BOX)

Test marketed in Connecticut - tar 20 mg, nicotine 1.6 mg.	6/84

NEWPORT LIGHTS 80 (BOX)

Test marketed - Tar (8 mg) and nicotine (0.7 mg) - Low delivery result of 33% filter ventilation with porous tipping paper. Similar to physical characteristics and blend composition of Newport Lights 85.	3/80

NEWPORT LIGHTS 85

Test marketed - low tar (10 mg) and nicotine (0.8 mg). Characterized by a 25 mm CA filter with ventilation (27%) and a high level of paper component in a fast burning cigarette paper. Ventilation system utilizes porous tipping paper.	5/77

NEWPORT LIGHTS 100

Introduced - nationally - Delivers 9 mg tar, 0.78 mg nicotine, and 0.36 mg of menthol. The low delivery is achieved by using porous tipping paper.	9/81

NEWPORT LIGHTS 100 (BOX)

Test marketed in Connecticut - tar 9 mg, nicotine 0.8 mg.	6/84

OLD GOLD 80 (BOX)

Introduced in flip-top box - Similar to Old Gold 85.	5/74

OLD GOLD 100

Introduced - 100 mm cigarette with 25 mm CA filter.	5/69
Coupon added to pack.	6/69
Reconstituted tobacco increased 10 to 16% - RKS decreased 9 to 4%.	10/70
Filter length (25 to 27 mm) increased - Tipping paper length (30 to 32 mm) increased. Tar (21 to 20 mg) and nicotine (1.4 to 1.3 mg) deliveries decreased.	2/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

OLD GOLD FILTER 85

Alkaloids reduced by 0.2%, nicotine delivery decreased.	1/63
Nicotine delivery and filler alkaloids increased - TPM increased slightly.	4/65
Filter length (17 to 20 mm) and fiber denier increased - tobacco weight decreased.	5/65
Coupon added to pack.	1/66
TPM (2 mg) and nicotine (0.1 mg) deliveries increased.	7/66
Reconstituted tobacco content increased (9 to 12%).	5/70
Reconstituted tobacco increased 10 to 16% - RKS decreased 8 to 5%.	10/70
Reconstituted tobacco increased 16 to 19% - RKS decreased 6 to 0%.	9/71
Filter fiber shape (I to Y) and denier (3.6 to 3.0) changed - No change in smoke deliveries.	10/71
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density, and higher total RTD - Also, lower puff count, tar, and nicotine deliveries were noted.	12/72
Tipping paper length increased 24 to 25 mm.	9/73
Filter length (20 to 21 mm) and tipping paper length (25 to 26 mm) increased.	11/74
Tar (1 mg) and nicotine (0.1 mg) increased as result of increase in filler rod TPM.	12/76
Lower tar (17 to 16 mg) and filler rod TPM deliveries observed resulting from a decrease in tobacco weight.	9/78
Coupon dropped from pack.	11/79

OLD GOLD LIGHTS 85

Introduced on test market - Low delivery (9 mg tar and 0.8 mg nicotine) cigarettes characterized by 25 mm CA filter with 34% ventilation. Ventilation achieved using porous tipping paper. Further characterized by a high level of paper component on cigarette paper.	8/77

OLD GOLD STRAIGHTS 85 (NF)

Long to king size.	5/60

OLD GOLD LIGHTS 100

Test marketed - delivers 12 mg tar and 0.9 mg nicotine.	5/85

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

REBEL 85

Introduced - test market - These cigarettes deliver 11.1 mg tar and 0.96 mg nicotine. The ventilation system consists of a band of micro-mechanical perforation. These cigarettes are similar to Maverick 85. 10/81

Discontinued. 4/83

REBEL 100

Introduced - test market - These cigarettes deliver 10.9 mg tar and 0.99 mg nicotine. The ventilation system consists of a band of micro-mechanical perforation. These cigarettes are similar to Maverick 100. 10/81

Discontinued. 4/83

REDFORD 85

Test marketed - new 85 mm "full flavor" cigarette - Similar to Old Gold 85. 4/73

SATIN 100

Test marketed - delivers 11 mg tar and 0.9 mg nicotine - two rows of mechanical perforation. 6/82

SATIN MENTHOL 100

Test marketed - delivers 11 mg tar, 0.9 mg nicotine and 0.39 mg menthol in smoke - two rows of mechanical perforation. 6/82

SPRING 85

Spring 85 replaced by Spring 100 in March, 1967 (History of Spring 85 in C.I. 1/72). 3/67

SPRING 100

Introduced - 100 mm mentholated cigarette with 20 mm CA filter. 3/67

Tar (1 mg) reduced by increasing tipping paper (24 to 27 mm). 11/67

Tar (2 mg) and nicotine (0.2 mg) reduced by increasing tipping paper (27 to 30 mm). 1/68

Filter length increased (20 to 25 mm) - Tar increased (2 mg). 1/69

Reconstituted tobacco increased 6 to 9% - RKS decreased 8 to 5%. 10/70

Reconstituted tobacco increased 11 to 18% - RKS decreased 8 to 0%. 9/71

Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density, and puff count - Also, lower tar and nicotine deliveries noted. 2/72

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

SPRING 100 (continued)

Cigarette length (99.2 to 98.4 mm) decreased. Tar (20 to 19 mg) and nicotine (1.1 to 1.0 mg) decreased.	3/75
Tar (1 mg) decreased by a change in tipping paper length (30 to 32 mm).	11/75
Filter length (25 to 27 mm) and fiber denier (6.6 to 7.6 mm) increased - Filler alkaloids increased.	4/76
Cigarette length increased (98.7 to 99.3 mm).	12/76

TRIUMPH 85

Test marketed - 85 mm cigarette delivering 4 mg tar and 0.4 mg nicotine. Characterized by high alkaloid blend (2.8%) containing 19% Freon expanded tobacco. 25 mm dual CA filter with 60% ventilation.	11/78

TRIUMPH MENTHOL 85

Test marketed - 85 mm menthol cigarette delivering 4 mg tar and 0.4 mg nicotine. Characterized by high alkaloid blend (2.8%) containing 19% Freon expanded tobacco. 25 mm dual CA filter with 60% ventilation.	11/78
Tar (5 to 4 mg) and nicotine (0.6 to 0.5 mg) data changed on pack to comply with FTC Report.	5/82

TRIUMPH 100

Test marketed in New York - 100 mm, tar (4.7 mg) and nicotine (0.56 mg) - 6 rows of MP ventilation holes.	3/81

TRIUMPH MENTHOL 100

Test marketed in New York - 100 mm, tar (4.9 mg) and nicotine (0.58 mg) - 7 rows of MP ventilation holes.	3/81

TRUE 85

Introduced - king size filter cigarette with dual filter consisting of 10 mm CA and 10 mm polyethylene mouthpiece.	4/66
TPM decreased, 2 mg by increasing filter ventilation.	10/66
Tar decreased (1 mg) - A lower tobacco weight and filler rod TPM noted.	11/68
Reconstituted tobacco increased 10 to 14% - RKS decreased 8 to 3%.	10/70
Reconstituted tobacco increased 13 to 17% - RKS decreased 6 to 2%.	9/71

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

TRUE 85 (continued)

RKS decreased 2 to 0%.	10/71
Fiber shape changed C to Y-shape - No change in deliveries.	11/72
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density, and higher total RTD - Also, lower puff count, tar and nicotine deliveries noted.	12/72
Filter length increased (20 to 25 mm) - Lower tobacco wt.	10/74
New 5 mg tar version introduced. Lower tar achieved by increased filter ventilation and lower tobacco weight. Expanded tobacco level increased (11 to 23%).	7/76
Cigarette length decreased 84.7 to 84.0 mm.	6/78
Tar (5 to 4 mg) data changed on pack to comply with FTC Report.	5/82
Test marketing re-engineered version in New Mexico - uses laser perforation and a lower level of expanded tobacco.	11/83
Re-engineered versions in national distribution - uses laser perforation and lower level of expanded tobacco.	5/84

TRUE MENTHOL 85

Introduced - Similar to True filter except for presence of menthol.	9/66
Reconstituted tobacco increased 13 to 17% - RKS decreased 6 to 2%.	9/71
RKS decreased 2 to 0%.	10/71
Fiber shape changed C to Y-shape - No change in deliveries.	11/72
Expanded tobacco added to blend (9%) - Resulted in lower tobacco weight, rod density, and higher total RTD - Also, lower puff count, tar and nicotine deliveries noted.	12/72
Filter length increased 20 to 25 mm - Lower tobacco weight.	1/75
New 5 mg tar version introduced. Cigarettes are similar to True 85.	7/76
Lower tar (6.5 to 5.0 mg) and nicotine (0.5 to 0.4 mg) observed correlating with an increase in filter ventilation. Increased filter ventilation resulted from decreasing the number of rows of ventilation holes (from 9 to 5) in the tipping paper and using a more porous combining plug wrap.	2/77
Cigarette length decreased 84.5 to 84.0 mm.	6/78
Test marketing re-engineered version in New Mexico - uses laser perforation and a lower level of expanded tobacco.	11/83
Re-engineered versions in national distribution - uses laser perforation and lower level of expanded tobacco.	5/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

TRUE ULTRA ONE 85

Test marketed - ultra low tar (2 mg) and nicotine (0.2 mg) - 25 mm CA filter with 62% ventilation (6 rows of mechanically perforated).	11/80

TRUE 100

Plain - test marketed - 12 mg tar and 0.8 mg nicotine - Blend contains 13% expanded tobacco.	4/74
Cigarette length (99.5 to 97.9 mm) decreased.	6/75
Cigarette length (98.1 to 99.2 mm) increased - Lower tobacco weight and rod density.	6/76
Filter length increased (25 to 27 mm). Tobacco weight decreased.	7/76
Tar (13 to 8 mg) and nicotine (0.9 to 0.7 mg) decreased resulting from an increase in filter ventilation and a lower tobacco weight. A blend change indicated by a higher filler alkaloid content, lower reducing sugars and a higher expanded tobacco level (9 to 18%).	8/79
Test marketing re-engineered version in New Mexico - uses laser perforation and a lower level of expanded tobacco.	11/83
Re-engineered versions in national distribution - uses laser perforation and lower level of expanded tobacco.	5/84

TRUE MENTHOL 100

Menthol - Test marketed - 12 mg tar and 0.8 mg nicotine - Blend contains 13% expanded tobacco.	4/74
Cigarette length (99.4 to 98.3 mm) decreased.	6/75
Cigarette length (98.3 to 99.1 mm) increased - Lower tobacco weight and rod density.	6/76
Filter length increased (25 to 27 mm). Tobacco weight decreased.	7/76
Tar (13 to 9 mg) and nicotine (0.9 to 0.7 mg) decreased resulting from an increase in filter ventilation and a lower tobacco weight. A blend change indicated by a higher filler alkaloid content, lower reducing sugars and a higher expanded tobacco level (9 to 18%).	8/79

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

D. LORILLARD COMPANY (continued)

TRUE MENTHOL 100 (cont.)

Test marketing re-engineered version in New Mexico - uses laser perforation and a lower level of expanded tobacco.	11/83
Re-engineered version in national distribution - uses laser perforation and lower level of expanded tobacco.	5/84

YORK 88

Introduced - dual filter, carbon on tow filter - Filter has gas phase activity.	3/64
Introduced - dual filter, bonded carbon filter - Filter has gas phase activity.	4/64

YORK 90 (NF)

Introduced - Imperial Size (N-F, 90 mm).	8/61
Dropped from C.I. (History of Brand in C.I. 5/64).	3/64

YORK 100

Introduced - 100 mm cigarette with 20 mm CA filter.	3/67

ZACK 80

Introduced - package looks like blue denim - No unusual characteristics.	10/74

ZACK 85

Introduced - package looks like blue denim - No unusual characteristics.	10/74

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY

BRANDON 85 (NF)

Introduced - king size, nonfilter.	2/62

BRIGHT 85

Test market - Tar (6 mg), nicotine (0.5 mg) and menthol (0.5 mg) - one row mechanical perforation.	7/82
National distribution.	11/82
Filter length increased (25 to 27 mm) - tobacco weight decreased (0.638 to 0.610 g) - filter RTD increased (4.3 to 4.7 in.).	11/83
More porous cigarette paper (24 to 17 sec.) with increased paper component (0.4 to 0.8%) used on brand - Increased filler menthol (3.1 to 3.4 mg) resulted in higher smoke menthol (0.43 to 0.56 mg).	3/84

BRIGHT 100

Test market - Tar (6 mg), nicotine (0.5 mg) and menthol (0.5 mg) - one row mechanical perforation.	7/82
National distribution.	11/82
Increased level of paper component (0.4 to 1.4%) - higher filler menthol (4.1 to 4.5 mg) resutled in higher smoke menthol (0.49 to 0.56 mg).	3/84
Filter length increased (27 to 31 mm) - tobacco weight decreased (0.780 to 0.736 g).	9/84

BROOKWOOD MENTHOL 85

Test marketed - Tar (9 mg) - Cigarette has a high alkaloid blend with filter ventilation consisting of two rows of mechanically perforated holes. Very similar to the Real Menthol 85 already on the market.	8/79

CAMEL 70 (NF)

Nicotine delivery and filler alkaloids decreased.	2/62
Nicotine delivery and filler alkaloids increased. Also RTD decreased 0.3 inches of H_2O.	2/65
Expanded tobacco (7%) noted in blend of some cigarettes.	12/69

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

CAMEL 70 (NF) (continued)

Expanded tobacco observed in all cigarettes - Tobacco weight lower - No change in tar or nicotine.	3/70
Filler alkaloids reduced (0.2%) correlating with a lower nicotine delivery.	11/75
Level of reconstituted tobacco increased from 9 to 16%.	9/78
Tar (24 to 19 mg), nicotine (1.7 to 1.4 mg), and CO (15 to 11 mg) deliveries were noted as a result in a change to a more porous cigarette paper and a change in the type paper component (phosphate to citrate).	11/80
CO delivery increased (12.6 to 15.8 mg) correlating with a change to less porous paper (17 to 25 sec.) - paper component increased (0.4 to 1.4%).	3/83

CAMEL FILTER 80 (BOX)

Plain - introduced in flip top box similar to Camel Filter 85 - Tar (19 mg) and nicotine (1.3 mg) deliveries.	10/75

CAMEL FILTER 85

Introduced in three different packages - king size with a 20 mm CA filter.	10/65
Blend change noted in cigarette marketed in brown pack - lower alkaloids resulting in lower nicotine.	4/66
TPM (4 mg) and nicotine (0.2 mg) decreased as result of increase in filter efficiency.	3/67
TPM (2 mg) and nicotine (0.1 mg) decreased as result of change in blend.	4/67
Reconstituted material increased, 19 to 24%.	9/68
Expanded tobacco (9%) noted in blend - no change in tar or nicotine deliveries - Tobacco weight lower.	3/70
The amount of expanded tobacco increased (9 to 12%) - Nicotine delivery decreased (0.1 mg).	3/71
Filter length (20 to 21 mm) and tipping paper (24 to 25 mm) increased. Lower tar (1 mg) and nicotine (0.1 mg) deliveries observed.	10/72

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

CAMEL FILTER 85 (continued)

Filler alkaloids reduced (0.1%).	11/75
Tar (15.5 to 13.8 mg), nicotine (1.19 to 1.02 mg) and CO (17 to 14.4 mg) decreased - achieved filter ventilation (0 to 13%) by band of ESP holes.	4/81
Test marketed packs containing 12 cigarettes per pack.	3/83

CAMEL MENTHOL 85

Introduced - 85 mm mentholated cigarette with 20 mm CA filter.	9/66
TPM (4 mg) and nicotine (0.2 mg) decreased as result of a blend change.	9/67

CAMEL LIGHTS 80 (BOX)

Test marketed - Tar (8 mg) and nicotine (0.8 mg) - Similar in characteristics to Camel 85's.	4/80
CO (7.1 to 8.1 mg) increased - change to less porous cigarette paper (16 to 30 sec.) - paper component (0.9 to 1.4%) increased.	8/82
Tobacco weight (0.677 to 0.727 g) and rod density (0.250 to 0.264 g/cc) increased - decreased amount of expanded tobacco (18 to 11%) - decreased total alkaloids observed (1.99 to 1.59%).	9/82
Tar delivery increased (7.8 to 9.1 mg) due to decreased ventilation - Paper component decreased (1.4 to 0.9%). Paper porosity increased (29 to 16 sec.).	5/83

CAMEL LIGHTS 85

Introduced on test market - Low delivery cigarettes (10 mg tar and 0.8 mg nicotine) characterized by a 25 mm CA filter with 32% ventilation and a high alkaloid blend.	9/77
Tar (10 to 8 mg) and nicotine (0.9 to 0.8 mg) decreased from an increase in filter ventilation (25 to 35%).	4/80
Test marketed packs containing 12 cigarettes per pack.	3/83
Filter length increased (25 to 27 mm) - rod density increased (0.233 to 0.245 g/cc).	9/83
Less porous cigarette paper (16 to 24 sec.) with higher level of paper component (0.7 to 1.5%).	11/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

CAMEL LIGHTS 100

Introduced - 12 mg tar and 1.2 mg nicotine - Very similar to Winston Lights 100's. 4/79

Tar (11.3 to 9.7 mg), nicotine (0.88 to 0.77 mg) and CO (14.5 to 13.6 mg) deliveries decreased - increased ventilation (20 to 26%) - increased filter length (27 to 31 mm) and weight (0.17 to 0.19 g) - decreased tobacco weight (0.851 to 0.808 g) - tipping paper length increased (34 to 35 mm). 5/84

Filter ventilation increased (16 to 33%) - CO decreased (13.8 to 11.4 mg) - ventilation changed from mechanical to electrostatic perforation - lower total RTD (144 to 117 mm of H_2O) was noted. 3/85

CAMEL TALLS 100

Test marketed - similar to Winston 100 in most characteristics. 9/71

Removed from market. 4/72

CENTURY 85

National distribution in 33 states - 25 cigarettes per pack - 14 mg tar and 1 mg nicotine. 7/83

CENTURY LIGHTS 85

National distribution in 33 states - 25 cigarettes per pack - 9 mg tar and 0.8 mg nicotine. 7/83

CENTURY 100

National distribution in 33 states - 25 cigarettes per pack - 11 mg tar and 1 mg nicotine. 1/84

CENTURY LIGHTS 100

National distribution in 33 states - 25 cigarettes per pack - 11 mg tar and 1 mg nicotine. 1/84

DAWN 120

Introduced 120 mm cigarette - white cigarette paper with thin gray parallel lines (filigrain) - Tar (20 mg) and nicotine (1.5 mg) deliveries. 21 mm circumference. 5/75

DAWN MENTHOL 120

Introduced 120 mm menthol cigarette - white cigarette paper with thin gray parallel lines (filigrain) - tar (20 mg) and nicotine (1.5 mg) deliveries. 21 mm circumference. 5/75

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

DORAL 85

Plain (85 mm) model introduced - 25 mm filter, 10 mm CA, and 15 mm plastic sections and utilizes filter ventilation.	11/68
Expanded tobacco (6%) noted in blend since Sept., 1969.	11/69
Reconstituted tobacco in blend increased (20 to 23%) in Doral 85 Plain. Tar delivery increased (1 mg) - filter ventilation decreased (30 to 24%).	4/71
Tar delivery increased (1 mg) - Filter ventilation decreased (24 to 21%).	8/71
Tar delivery decreased by a change to a more porous cigarette paper and a lower filler alkaloid content - Tar (2 mg) and nicotine (0.1 mg) decreased.	9/75
Tar (1 mg) and nicotine (0.1 mg) increased as result of increase in filler rod TPM.	11/76

DORAL MENTHOL 85

Mentholated (85 mm) model introduced - 25 mm filter, 10 mm CA, and 15 mm plastic sections and utilizes filter ventilation.	11/68
A green plug wrap was placed between the plastic mouthpiece and outer plug wrap on Doral Menthol.	6/69
Expanded tobacco (6%) noted in blend since September, 1969.	11/69
The amount of expanded tobacco increased (6 to 8%) and the amount of filter ventilation increased. The tar decreased (1 mg).	2/71
Tar delivery increased (1 mg) - Filter ventilation decreased (30 to 24%).	4/71
Tar delivery increased (1 mg) - Filter ventilation decreased (24 to 21%).	8/71
Tar delivery decreased by a change to a more porous cigarette paper and a lower filler alkaloid content - Tar (2 mg) and nicotine (0.1 mg) decreased.	9/75
Higher tar (12.3 to 13.7 mg) and nicotine (0.9 to 1.0 mg) were noted corresponding to a decrease in filter ventilation.	3/77

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

DORAL II 85

Test marketed - These new Doral II cigarettes deliver 5 mg tar and 0.5 mg nicotine - 25 mm CA filter with 60% ventilation and a high level of paper component in the cigarette paper - 19% Freon expanded tobacco in the blend. 2/79

DORAL II MENTHOL 85

Test marketed - These new Doral II Menthol cigarettes deliver 5 mg tar and 0.5 mg nicotine - 25 mm CA filter with 60% ventilation and a high level of citrate in the cigarette paper - 19% Freon expanded tobacco in the blend. 2/79

Tar (5.3 to 3.8 mg), nicotine (0.48 to 0.41 mg) and CO (4.2 to 3.2 mg) lowered - increase in filter ventilation (53 to 65%) lower total RTD (3.6 to 2.8). 2/81

Paper component in cigarette paper decreased - higher puff count (7.2 to 7.5). 4/81

DORAL FILTER LIGHTS 85

Value entry product - test marketed in 13 states - delivers 12 mg tar - contains highest level of reconstituted material (32%). 5/84

DORAL FILTER LIGHTS MENTHOL 85

Value entry product - test marketed in 13 states - delivers 12 mg tar - contians highest level of reconstituted material (32%). 5/84

DORAL FILTER LIGHTS 100

Value entry product - test marketed in 13 states - first 100 mm cigarette introduced using Doral name. 5/84

DORAL FILTER LIGHTS MENTHOL 100

Value entry product - test marketed in 13 states - first 100 mm cigarette introduced using Doral name. 5/84

EMBRA 100

100 mm slim cigarettes with 27 mm filter, plain - new type pack and carton. 9/69

Expanded tobacco (6%) noted in blend since August, 1969. 11/69

Tar (4 mg) and nicotine (0.2 mg) increased by changes in paper porosity (11 to 18 sec.) and fiber denier. 2/70

Discontinued by Reynolds in May, 1970. 5/70

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

EMBRA MENTHOL 100

100 mm slim cigarettes with 27 mm filter, mentholated - new type pack and carton.	9/69
Expanded tobacco (6%) noted in blend since August, 1969.	11/69
Tar (4 mg) and nicotine (0.2 mg) increased by changes in paper porosity (11 to 18 sec.) and fiber denier.	2/70
Discontinued by Reynolds in May, 1970.	5/70

JAMESTOWN 85

85 mm cigarette - similar to Winston 85 possibly for trademark purposes.	6/70

MORE 120 (BOX)

Plain - Introduced - 120 mm cigarette with brown colored cigarette and tipping paper. This new cigarette is slimmer (21 mm circumference) and longer (119 mm) than any other cigarette on the market. Two versions introduced - one with 3 rows of parallel (mechanically) ventilation holes the length of the cigarette rod and one without ventilation holes.	9/74
Tar decrease (22 to 21 mg) by increase in filter ventilation (22 to 36%). A lower total RTD was observed.	9/79
Tar (20.5 to 18.5 mg), nicotine (1.64 to 1.52 mg) and CO (23.2 to 20.4 mg) reduced - lower filler rod TPM (38.1 to 35.1 mg).	1/81
Tar (17.3 to 15.8 mg), nicotine (1.46 to 1.23 mg) and CO (20.4 to 19.3 mg) lowered - increase in filter length (30 to 35 mm) and tipping paper length (35 to 39 mm).	5/81
Tar (15 to 17.1 mg), nicotine (1.19 to 1.36 mg) and CO (21 to 22.8 mg) increased - decreased ventilation (37 to 28%).	11/82

MORE MENTHOL 120 (BOX)

Menthol - Introduced - 120 mm cigarette with brown colored cigarette and tipping paper. This new cigarette is slimmer (21 mm circumference) and longer (119 mm) than any other cigarette on the market. Two versions introduced - one with 3 rows of parallel (mechanically) ventilation holes the length of the cigarette rod and one without ventilation holes.	9/74
Tar decrease (23 to 22 mg) by increase in filter ventilation (23 to 33%). A lower total RTD was observed.	9/79

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

MORE MENTHOL 120 (BOX) (continued)

Tar (21.2 to 18.8 mg), nicotine (1.75 to 1.53 mg) and CO (23.4 to 19.4 mg) reduced - lower filler rod TPM (38.1 to 35.1 mg). 1/81

Tar (18 to 16 mg), nicotine (1.5 to 1.3 mg) and CO (20 to 19 mg) lowered - increase filter length (30 to 35 mm) and tipping paper length (35 to 39 mm). 6/81

MORE LIGHTS 100 (BOX)

Introduced - a beige colored slim cigarette - targeted for the female market - tar (8 mg) and nicotine (0.6 mg) - expanded tobacco (16%). 6/81

Color of cigarette paper changed to deep tan - design of package changed. 9/84

MORE LIGHTS MENTHOL 100 (BOX)

Introduced - a beige colored slim cigarette - targeted for the female market - tar (8 mg) and nicotine (0.6 mg) - expanded tobacco (28%). 6/81

Filler menthol increased (2.6 to 3.4 mg) - smoke menthol increased (0.39 to 0.56 mg) - ventilation system changed from mechanical to Hauni laser perforation. 5/84

Color of cigarette paper changed to deep tan - design of package changed. Decrease in expanded tobacco (28 to 17%) - increase in tobacco weight (0.603 to 0.684 g) - increase puff count (8.0 to 9.5). 9/84

MR. MENTHOL 85

85 mm mentholated cigarette with 20 mm CA filter. Single row of ventilation holes - Blend does not contain expanded tobacco. 2/70

NOW 80 (BOX)

Introduced a low tar (0.2 mg) and nicotine (0.03 mg) cigarette. Ultra low delivery achieved by high filter ventilation (85%) and low tobacco weight (82% expanded tobacco). 4/80

NOW 85 (BOX)

Plain - test marketed in a flip-top box - Tar (2 mg) and nicotine (0.2 mg) deliveries - Accomplished primarily by high ventilation and blend composition - Blend contains 50% expanded tobacco and lowest filler weight of any 85 mm cigarette. 12/75

Test marketed in a crush-proof box - Tar (2 mg) and nicotine (0.2 mg) deliveries accomplished by high filter ventilation and blend composition - Blend contains 50% expanded tobacco and has a rod density of 0.17 g/cc. 1/76

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

NOW 85 (BOX) (continued)

Tar and nicotine data on pack changed to 1 mg and 0.1 mg, respectively. Lower tar achieved as result of increased filter ventilation.	12/76
Tar (1 mg) and nicotine (0.1 mg) data listed on pack replaced by statement "Ultra Low Tar." Increase in filler alkaloids noted.	11/77
Tar (2 to 0.6 mg), nicotine (0.2 to 0.06 mg) and CO (2 to <1.0 mg) lowered - increase filter ventilation (68 to 82%) and tipping paper (30 to 35 mm) - tar data on pack changed from 2 to 1 mg.	6/81
Filter length increased (25 to 27 mm) - filter RTD increased (6.1 to 6.5 in. H_2O) - tobacco weight (0.524 to 0.505 g) and rod density (0.182 to 0.718 decreased Ventilation system changed from mechanical perforation to laser perforation.	9/83
Tipping paper length decreased (35 to 31 mm).	1/84

NOW 85 (SOFT PACK)

Soft pack version marketed in Washington, D.C. Similar to hard box version of Now 85 cigarettes with the exception of a longer cigarette length. "Ultra Low Tar" specified on the package.	11/77

NOW MENTHOL 85 (BOX)

Menthol - test marketed in a flip top box - Tar (2 mg) and nicotine (0.2 mg) deliveries - Accomplished primarily by high ventilation and blend composition - Blend contains 50% expanded tobacco and lowest filler weight of any 85 mm cigarette.	12/75
Menthol - Test marketed in a crush-proof box - Tar (2 mg) and nicotine (0.2 mg) deliveries accomplished by a high filter ventilation and blend composition - Blend contains 50% expanded tobacco and has a rod density of 0.17 g/cc.	1/76
Tar and nicotine data on pack changed to 1 mg and 0.1 mg, respectively. Lower tar achieved as result of increased filter ventilation.	12/76
Tar (1 mg) and nicotine (0.1 mg) data listed on pack changed to 2 mg and 0.2 mg, respectively. Increase in filler alkaloids noted.	11/77
Tar (2 to 0.06 mg), nicotine (0.2 to 0.06 mg) and CO (2 to <1.0 mg) lowered - increase filter ventilation (68 to 82%) and tipping paper (30 to 35 mm) - tar data on pack changed from 2 to 1 mg.	6/81

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

NOW MENTHOL 85 (BOX) (continued)

Filter length increased (25 to 27 mm) - decreased tobacco weight (0.517 to 0.492 g). Ventilation system changed from mechanical perforation to laser perforation.	11/83
Tipping paper length decreased (35 to 31 mm).	1/84

NOW MENTHOL 85 (SOFT PACK)

Soft pack version marketed in Washington, D.C. Similar to hard box version of Now Menthol 85 cigarettes with the exception of a longer cigarette length. "Ultra Low Tar" specified on the package.	11/77

NOW 100

Test marketed - Tar (2 mg) and nicotine (0.2 mg) - Low delivery achieved by 75% filter ventilation.	3/80
Expanded tobacco (25 to 50%) increased - reconstituted tobacco (22 to 15%) decreased - lower tobacco weight (0.805 to 0.664 g) and rod density (0.229 to 0.185 g/cc).	2/81
Ventilation system changed from three to two rows laser perforation.	5/83
Lower puff count due to less porous paper (14 to 23 sec.) with high level of paper component (0.5 to 1.6%). Increased filter RTD (3.7 to 4.7 in. H_2O) and filter efficiency (58 to 65%) due to change in fiber denier (3.5/Y to 2.6/Y).	11/83
Tar (2.8 to 3.6 mg), nicotine (0.28 to 0.34 mg) and CO (2.9 to 4.3 mg) increased - decrease in ventilation (74 to 66%) - filter length (27 to 31 mm), filter weight (0.18 to 0.20 g), increased - tobacco weight decreased (0.659 to 0.614 g).	5/84

NOW 100 (BOX)

Introduced - slim cigarette (22.5 mm), tar (0.00 mg), filter ventilation (95%), and filter RTD (9.5) - blend 100% expanded tobacco.	3/81

NOW MENTHOL 100

Test marketed - Tar (2 mg) and nicotine (0.2 mg) - Low delivery achieved by 75% filter ventilation.	3/80
Expanded tobacco (25 to 50%) increased - reconstituted tobacco (22 to 15%) decreased - lower tobacco weight (0.796 to 0.656 g) and rod density (0.229 to 0.185 g/cc).	2/81

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

NOW MENTHOL 100 (continued)

Tar (2.8 to 1.4 mg) and nicotine (0.25 to 0.20 mg) decreased - ventilation (76 to 82%) increased - menthol (0.34 to 0.29 mg) decreased. 5/82

Tar (1.5 to 2.3 mg), nicotine (0.21 to 0.30 mg) and CO (0.9 to 1.8 mg) increased - decreased ventilation (82 to 76%). 9/82

Ventilation system changed from three to two rows laser perforation. 5/83

CO increased (1.6 to 2.5 mg) due to a change to a less porous paper (15 to 25 sec.) with higher level of paper component (0.4 to 1.9%) - Fiber denier decreased (3.2/Y to 2.4/Y) resulting in increased filter RTD (3.8 to 4.6 in. H_2O) and filter efficiency (54 to 64%). 1/84

Tar (2.5 to 3.4 mg) and CO (2.9 to 3.6 mg) deliveries increased - decreased ventilation (77 to 71%). Filter length increased (27 to 31 mm) - decreased tobacco weight (0.662 to 0.620 g), increased total RTD (3.4 to 4.1 in. H_2O) filter RTD (4.6 to 5.4 in. H_2O) and filter weight (0.19 to 0.21 g). 5/84

PRINCE ALBERT 85

Introduced - king size with a 20 mm CA filter - "pipe tobacco" blend. 8/65

REAL 85

Introduced - low tar (10 mg) and nicotine (0.8 mg) correlating with a 25 mm high efficiency CA filter with ventilation (27%). Blend contains similar levels of reconstituted material and Freon expanded tobacco typical of other Reynolds' products. Tar (9 mg) listed on pack along with a claim "Nothing Artificial Added." 6/77

Lower tar (10 to 8 mg) and nicotine (0.9 to 0.7 mg) resulting from an increase in filter ventilation (25 to 38%). 5/80

REAL MENTHOL 85

Introduced - low tar (10 mg) and nicotine (0.8 mg) correlating with a 25 mm high efficiency CA filter with ventilation (34%). Blend contains similar levels of reconstituted material and Freon expanded tobacco typical of other Reynolds' products. Tar (9 mg) listed on pack along with a claim "Nothing Artificial Added." 6/77

Filler and smoke menthol levels increased. 2/79

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E. REYNOLDS TOBACCO COMPANY (continued)

RITZ 100 (BOX)

Introduced - flip-top box has Yves Saint Laurent designer logo - cigarettes will be sold at a premium price - delivers 11 mg tar and 0.8 mg nicotine - typical Reynolds blend.	1/85

RITZ MENTHOL 100 (BOX)

Introduced - flip-top box has Yves Saint Laurent designer logo - cigarettes will be sold at a premium price - delivers 11 mg tar, 0.8 mg nicotine and 0.7 mg menthol.	1/85

SALEM 80 (BOX)

Introduced in flip-top box - Similar to Salem 85.	3/74
Lower filler alkaloids (0.1%) correlating with a lower nicotine delivery.	11/75
Tipping paper length increased (23 to 24 mm). Decrease in tar delivery and puff count noted.	11/76
Decrease in tar (19 to 15 mg) and nicotine (1.2 to 1.1 mg) deliveries corresponding to the use of a more porous cigarette paper and a more efficient filter.	7/77

SALEM 85 1980 deleted

Nicotine delivery and filler alkaloids decreased.	10/60
Nicotine delivery and filler alkaloids decreased.	7/63
Nicotine delivery and filler alkaloids increased.	7/64
Nicotine delivery and filler alkaloids increased.	2/65
TPM decreased 1.5 mg by changing paper additive.	3/65
Filter length increased, 17 to 20 mm.	10/66
Expanded tobacco (4%) noted in blend of some cigarettes.	11/69
Tar (1 mg) and tobacco weight decreased by addition of expanded tobacco.	3/70

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

SALEM 85 (continued)

Filter length (20 to 21 mm) and tipping paper length (24 to 25 mm) increased - No change in smoke deliveries.	2/73
Tar delivery (1 mg) decreased - Cigarette length decreased - puff count lower.	3/73
Lower filler alkaloids (0.1%) correlating with a lower nicotine delivery.	11/75
Cigarette length (84.3 to 84.0 mm) decreased.	2/76
Decrease in tar (18 to 16 mg) and nicotine (1.2 to 1.0 mg) correlating with a change to a more porous cigarette paper.	5/77
Tar (13.7 to 15.2 mg), nicotine (1.04 to 1.19 mg) and CO (13.6 to 15.4 mg) increased - change to a less porous paper (18 to 20 sec.) and a less efficient filter (45 to 40%) - higher filler menthol (1.4 to 2.1 mg) resulted in higher menthol in smoke (0.42 to 0.55 mg). Tobacco wt. (0.783 to 0.745 g) and rod density (0.252 to 0.242 g/cc) decreased - increased paper component (0.6 to 1.3 %).	8/82
Test marketed pack containing 12 cigarettes per pack.	3/83
Ventilation decreased (18% to none) resulting in higher tar (15 to 16 mg), nicotine (1.2 to 1.3 mg), CO (16 to 18 mg), and menthol (0.57 to 0.68 mg) deliveries.	5/83
Paper component level increased (0.6 to 1.5%).	11/83

SALEM EXTRA 85

Introduced - Delivers more menthol than current Salem 85 - cork tipping.	10/74

SALEM LIGHTS 85

Menthol - Test marketed - Tar (12 mg) and nicotine (0.8 mg) deliveries - Lower in tar than Salem 85 because of more porous cigarette paper, filter ventilation and an increased filter and tipping paper length.	11/75
Tar delivery (1 mg) decreased by increase in filter ventilation.	4/76

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

SALEM LIGHTS 85 (continued)

Tar (10 to 8 mg), nicotine (0.8 to 0.6 mg), and CO (13 to 12 mg) decreased resulting from an increase in both filter ventilation (16 to 28%) and tipping paper length (30 to 32 mm).	10/80
Tar (8.6 to 8.2 mg) and CO (10.7 to 8.8 mg) decreased - increased filter ventilation (30 to 42%). Paper porosity decreased (17 to 26 sec.) - paper component increased (0.7 to 1.6%). Tobacco weight (0.714 to 0.689 g) decreased - increased amount of expanded tob. (13 to 17%).	10/82
Test marketed pack containing 12 cigarettes per pack.	3/83
Tar (8 to 9 mg), nicotine (0.7 to 0.8 mg), CO (9 to 11 mg), and menthol (0.31 to 0.50 mg) deliveries increased due to decreased ventilation. Ventilation system changed from two to one row of mechanical perforation - decreased paper component - increased cigarette paper porosity.	5/83
Filter length increased (25 to 27 mm), rod density increased (0.237 to 0.244 g/cc).	9/83
Tar (9 to 10 mg), nicotine (0.77 to 0.82 mg) and puff count (7.4 to 7.8) increased - tipping paper length decreased (32 to 31 mm) - filler menthol (2.6 to 2.9 mg) and smoke menthol (0.48 to 0.52 mg) increased.	3/84

SALEM ULTRA 85

Name changed to Salem Ultra Lights.	3/82
Tar (4.8 to 5.5 mg), nicotine (0.42 to 0.47 mg) and CO (4.7 to 6.7 mg) increased - decreased ventilation (56 to 52%) and less porous paper (18 to 26 sec.) - increased paper component (0.8 to 1.7%). Filter efficiency (58 to 63%) increased - increased filter RTD (99 to 130 mm of H_2O) - Menthol in smoke (0.50 to 0.42 mg) decreased - lower menthol in filler and filter.	12/82
Filter (25 to 27 mm) and tipping paper (30 to 31 mm) lengths increased. Ventilation system changed from mechanical to Hauni laser.	11/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

SALEM 100

Test marketed - 100 mm long - 20 mm CA filter.	6/67
Tar (4 mg) and nicotine (0.2 mg) reduced by filter length (20 to 25 mm) and tipping paper (24 to 30 mm).	12/67
Tar (2 mg) and nicotine (0.1 mg) decreased by addition of expanded tobacco (6%) - Tobacco weight lower.	10/70
Reconstituted tobacco content of blend increased (22 to 26%).	4/71
Filter length (25 to 27 mm) and tipping paper length (30 to 31 mm) increased - No change in smoke deliveries.	1/73
Lower filler alkaloids (0.1%) correlating with a lower nicotine delivery.	11/75
Name changed from Salem Premium Length 100 to Salem 100.	5/77
Cigarette length increased corresponding to 0.4 mm increase in filter length.	11/77
Tar (15.3 to 13.9 mg) and CO (16.4 to 13.8 mg) decreased - increase in filter ventilation (17 to 28%).	1/81
Tar (14.6 to 17.0 mg), nicotine (1.17 to 1.27 mg) and CO (14.3 to 16.7 mg) increased - change to less porous paper (16 to 24 sec.) and decreased ventilation (25 to 19%). Menthol in smoke (0.43 to 0.69 mg) increased - higher menthol levels in filler and filter.	10/82
Test marketed pack with 12 cigarettes per pack.	3/83
CO decreased (16 to 14 mg) - change to more porous paper (25 to 17 sec.) with lower level of paper component (1.5 to 0.7%).	5/84

SALEM LIGHTS 100

Introduced - appears to be low delivery (11 mg tar and 0.8 mg nicotine) version of Salem 100 cigarettes. Low delivery achieved by filter ventilation.	10/76
Name changed from Salem Long Lights 100 to Salem Light 100.	5/77
Cigarette length increased corresponding to 0.4 mm increase in filter length.	11/77
Tar (10.3 to 9.8 mg) reduced - lower filter ventilation (33 to 29%) - increase in tipping paper length (31 to 35 mm).	2/81

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

SALEM LIGHTS 100 (continued)

Filter length increased (27 to 31 mm) - tobacco weight decreased (0.852 to 0.811 g). 6/84

Filter length increased (27 to 31 mm), tobacco weight decreased (0.847 to 0.803 g), smoke menthol lower (0.53 to 0.45 mg) correlated with lower filler menthol content (3.6 to 2.9 mg). 7/84

SALEM SLIM LIGHTS 100 (BOX)

Introduced - nationally - delivers 7.6 mg tar and 0.61 mg nicotine. The cigarette circumference is 22.7 mm. 12/81

Tar data changed on pack (9 to 8 mg) to comply with FTC Report. 6/82

SALEM ULTRA 100

Name change to Salem Ultra Lights 100. 3/82

SALEM ULTRA LIGHTS 100

Tar (4.6 to 6.0 mg), nicotine (0.46 to 0.54 mg) and CO (6.0 to 7.9 mg) increased - change to a less porous paper (17 to 24 sec.) - increased paper component (0.8 to 1.5%). Tobacco weight (0.829 to 0.840 g) and rod density (0.236 to 0.241 g/cc) increased - decreased amount of expanded tobacco (28 to 16%) - Menthol in smoke (0.37 to 0.47 mg) increased - total and filter RTD increased. 12/82

Tar (5.3 to 6.1 mg) and CO (6.2 to 7.2 mg) increased - decreased ventilation (60 to 56%). Increased filter length (27 to 31 mm) and filter weight (0.20 to 0.22 g) - decreased tobacco weight (0.831 to 0.789 g). Ventilation system changed from mechanical to Hauni laser. 5/84

STERLING SPECIAL BLEND 85 (SOFT PACK)

Introduced in black soft pack - similar in design to Sterling Special Blend (Box) - delivers 9 mg tar and 0.6 mg nicotine. 5/85

STERLING SPECIAL BLEND 94 (BOX)

National distribution - delivers 12 mg tar and 0.9 mg nicotine - packed in black pack - 94 mm cigarette length. 1/84

2050080975

Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

STERLING SPECIAL BLEND MENTHOL 94 (BOX)

National distribution - delivers 12 mg tar and 0.9 mg nicotine - packed in black pack - 94 mm cigarette length.	1/84

TEMPO 85

Test marketed - dual carbon filter king size soft pack - fused carbon inner plug - high gas phase activity.	4/64
Polyethylene pellets added to charcoal filter - decrease in gas phase activity - blend change indicated by an increase in filler alkaloids and decrease in reducing sugars.	1/65
Nicotine delivery and filler alkaloids increased.	4/65
Gas phase activity of filter decreased.	2/66
TPM (5 mg) and nicotine (0.5 mg) decreased as result of changes in blend, cigarette paper, and filter.	12/66
Reconstituted tobacco content increased (17 to 23%).	3/67
Tar (4 mg) and nicotine (0.2 mg) reduced by change in filter length (20 to 25 mm) and in tipping paper (24 to 30 mm).	5/68
Tar (2 mg) reduced as a result of introduction of Hauni-type ventilation (27%) - A higher gas phase smoke index and lower total and filter RTD were noted.	10/68
Tar (2 mg) and nicotine (0.1 mg) increased by reduction in the amount of filter ventilation.	7/69
Tar (1 mg) and nicotine (0.1 mg) reduced by an increase in filter ventilation - Reduction in total and filter RTD was noted.	7/70
Package overwrap changed from cellophane to polypropylene.	8/70
Expanded tobacco observed in blend (3%) - Paper porosity changed (12 to 8 seconds) - Tar increased (1 mg).	10/71
Expanded tobacco increased (4 to 8%). Lower tobacco weight and rod density noted - Cigarette paper porosity changed (17 to 12 seconds).	3/72
Tar (5 mg) and nicotine (0.3 mg) reduced by increased filter efficiency and filter ventilation - Fiber denier of outer filter changed from 3.2 to 1.9 - Expanded tobacco increased from 7 to 11%.	2/76

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

VANTAGE 85

A new low tar (11 mg) and nicotine (0.9 mg) cigarette with a new 25 mm geometrically shaped cellulose acetate filter - High alkaloids content and blend contains 8% expanded tobacco - Tar (11 mg) and nicotine (0.9 mg) listed on pack.	7/70
Filter shape of cigarettes modified and is similar to that of Vantage 100. A 25% reduction in filter weight resulted from this change in filter shape.	3/79
Incorporation of filter ventilation (19%) resulted in lower tar (10 to 9 mg) and nicotine (0.9 to 0.8 mg) deliveries.	5/79
Tar (9 to 10 mg) increased resulting from the elimination of filter ventilation. Vantage 85 cigarettes manufactured during April, May and June, 1979, had filter ventilation.	8/79
Incorporation of filter ventilation (16%) resulted in lower tar (10 to 9 mg).	3/80
Test marketed pack containing 12 cigarettes per pack.	3/83

VANTAGE MENTHOL 85

Similar to the Vantage plain except for menthol.	4/71
Filter design changed to circular openings at each end and constricted in the middle.	10/73
Menthol in smoke delivery decreased resulting from lower filler menthol content.	7/74
Tar (9.8 to 8.6 mg), nicotine (0.77 to 0.69 mg) and CO (15.2 to 12.6 mg) lowered - introduction of filter ventilation (14%) with one row of MP holes. Tar data listed on pack changed (11 mg to 9 mg).	2/81
Tar (9.4 to 7.9 mg) and CO (12.2 to 8.8 mg) deliveries decreased resulting from increased ventilation (16 to 40%) fiber denier and shape (1.8/R to 3.3/Y) changed - correlated with lower filtration efficiency (63 to 54%) - a less porous cigarette paper (16 to 20 sec.) with increased paper component (0.9 to 1.4%) was noted.	1/85

VANTAGE 100

Low tar (11 mg) and nicotine (0.8 mg) cigarette characterized by a high efficiency filter containing 18% ventilation. A modified version of the Filtrona filter used on Vantage 85 cigarettes. Tar (11 mg) and nicotine (0.9 mg) listed on pack.	1/77
Name changed from Vantage Long 100 to Vantage 100.	4/77
Cigarette length increased corresponding to 0.4 mm increase in filter.	11/77

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

VANTAGE 100 (continued)

Tar (10.0 to 7.5 mg), nicotine (0.80 to 0.67 mg) and CO (15.1 to 11.9 mg) lowered - increase in filter ventilation (18 to 30%). Tar data listed on pack changed (12 to 9 mg). 2/81

Increase in tar (7.6 to 9.0 mg) and CO (11.7 to 13.0 mg) as result of a change in paper porosity (13 to 17 sec.). 8/81

Total and filter RTD increased and filter efficiency decreased due to change in fiber denier and shape (1.7/R to 2.6/Y). 5/83

VANTAGE MENTHOL 100

Introduced - Tar (10 mg) and nicotine (0.8 mg) - filter configuration different from Vantage 100 resulting in higher total and filter RTD. 10/82

Filter length increased (27 to 31 mm) - tobacco weight decreased (0.839 to 0.792 g). Tipping paper length increased (34 to 35 mm). Lower nicotine (0.82 to 0.66 mg) and lower total alkaloid (1.95 to 1.78%) content observed. Ventilation system changed from mechanical to Hauni laser perforation. 9/84

VANTAGE ULTRA LIGHTS 85

Test marketed - New cigarette delivers 6 mg tar and 0.7 mg nicotine. 25 mm CA filter and 32% filter ventilation. This new Vantage Ultra Lights 85 cigarette has a higher filler alkaloid content than the regular Vantage 85 cigarettes. 6/79

Filter changed to CA - expanded tobacco (28 to 17%), tobacco weight (0.630 to 0.697 g), filter ventilation (35 to 55%), tar (6.3 to 5.1 mg) and CO (9.4 to 5.5 mg) decreased. 5/81

CO (5.0 to 6.8 mg) increased - change to less porous paper (16 to 26 sec.) - Increased paper component, puff count decreased. Tobacco weight (0.698 to 0.616 g) decreased - amount of expanded tobacco (17 to 20%) increased. 7/82

Filter length increased (25 to 26 mm). 10/82

Test marketed Filtrona-type filter. 5/83

Filter (26 to 27 mm) and tipping paper (30 to 31 mm) lengths increased - Ventilation system changed from mechanical to Hauni laser perforation. 11/83

VANTAGE ULTRA LIGHTS MENTHOL 85

National distribution - tar (5 mg) - similar to Vantage Ultra Lights 85 already on the market. 7/82

Test marketed Filtrona-type filter. 5/83

Filter (25 to 27 mm) and tipping paper (30 to 31 mm) lengths increased - ventilation system changed from mechanical to Hauni laser. 11/83

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

VANTAGE ULTRA LIGHTS 100

Introduced - Tar (5 mg) and nicotine (0.5 mg) - Low delivery achieved by a filter ventilation of 47% - Blend contains 19% expanded tobacco.	10/79
Paper component in the cigarette paper decreased- higher puff count (8.6 to 9.2).	4/81
Filter changed to CA - expanded tobacco (28 to 17%), tobacco weight (0.791 to 0.836 g), filter ventilation (45 to 58%) increase - tar (5.2 to 5.6 mg) and CO (7.9 to 5.8 mg).	5/81
Tobacco weight (0.847 to 0.751 g) decreased - increased amount of expanded tobacco (17 to 20%). Lower filler rod TPM (29.0 to 26.2 mg) and puff count (10.7 to 9.0 mg) observed. Cigarette length shortened (99.4 to 99.0 mm).	7/82
CO (5.6 to 6.3 mg) increased - change to a less porous paper (17 to 24 sec.) - Increased paper component (0.8 to 1.3%).	8/82
Test marketed Filtrona-type filter.	5/83
CO (6.4 to 5.6 mg) decreased - change to a more porous paper (24 to 16 sec.) with lower level of paper component (1.6 to 0.9%).	1/84
CO (5.7 to 7.2 mg) increased - change to a less porous paper (16 to 26 sec.) - Filter weight (0.20 to 0.22 g), filter length (27 to 31 mm) and tipping paper length (34 to 35 mm) increased - tobacco weight decreased (0.770 to 0.714 g).	5/84

VANTAGE ULTRA LIGHTS MENTHOL 100

National distribution - Tar (5 mg) similar to Vantage Ultra Lights 100 already on the market.	7/82
Test marketed Filtrona-type filter.	5/83
CO (6.9 to 6.0 mg) decreased due to more porous cigarette paper (24 to 16 sec.) with less paper component (1.5 to 0.8%).	11/83
Filter length increased (27 to 31 mm) - tobacco weight decreased (0.727 to 0.665 g). Tipping paper length increased (34 to 35 mm) - larger fiber denier (2.5 to 3.0) correlated with higher filter RTD (135 to 155 mm H_2O).	9/84

WINCHESTER 85

Plain - Introduced - Tar (18 mg) and nicotine (1.3 mg) No unusual characteristics.	10/74

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

WINCHESTER MENTHOL 85

Menthol - Introduced - Tar (18 mg) and nicotine (1.3 mg) - No unusual characteristics.	10/74

WINSTON 80 (BOX)

Nicotine delivery and filler alkaloids decreased.	9/60
Nicotine delivery and total alkaloids decreased. Reducing sugars increased.	6/61
Lighter filter of same efficiency.	11/61
Alkaloids reduced by 0.2%.	12/62
Total alkaloids reduced.	5/63
Nicotine delivery and filler alkaloids increased.	2/65
Tar (2 mg) and nicotine (0.1 mg) decreased by addition of expanded tobacco (8%) - Tobacco weight lower.	3/70
The amount of expanded tobacco increased (8 to 10%). A lower tobacco weight and rod density were observed.	2/71
Filter length (17 to 19 mm) and tipping paper length (21 to 23 mm) increased - Tar (1 mg) and nicotine (0.1 mg) decreased.	3/73
Lower filler alkaloids (0.1%).	11/75
Tipping paper length increased (23 to 24 mm). Decrease in tar delivery (19 to 18 mg).	10/76
Tar (18 to 16 mg) and nicotine (1.3 to 1.1 mg) decreased by a change to a more porous paper and a more efficient filter.	1/80

WINSTON 85

Nicotine delivery and filler alkaloids decreased.	9/60
Lighter filter of same efficiency.	11/61
TPM and nicotine reduction (1.5 mg and 0.2 mg) - Total alkaloids reduced.	4/63
Nicotine delivery and filler alkaloids increased.	2/65
Filter length increased, 17 to 20 mm - No change in smoke deliveries.	8/66
Expanded tobacco (6%) noted in blend of some cigarettes.	11/69

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

WINSTON 85 (cont.)

Tar (1.5 mg) and nicotine (0.1 mg) decreased by addition of expanded tobacco (7%). Tobacco weight lower.	3/70
The amount of expanded tobacco increased (7 to 10%). A lower tobacco weight was noted.	3/71
Filter length (20 to 21 mm) and tipping paper length (24 to 25 mm) increased. These changes increased filter efficiency and tar delivery decreased 1 mg.	12/72
Lower filler alkaloids (0.1%) correlating with a lower nicotine delivery.	11/75
Cigarette length (84.7 to 84.0 mm) decreased.	2/76
Tar (19 to 16 mg) and nicotine (1.4 to 1.0 mg) decreased as result of a change to a more porous paper and a more efficient filter.	2/80
Tar (14.8 to 14.0 mg) - filter ventilation by band of E.S.P. holes.	5/81
Test marketed pack containing 12 cigarettes per pack.	3/83
Tar (14.5 to 16.0 mg) and nicotine (1.1 to 1.2 mg) increased due to increased filler rod TPM (30.2 to 33.4), fiber denier (2.6/Y to 3.6/Y) and decreased paper component (1.6 to 0.4%).	7/83

WINSTON LIGHTS 85

Introduced - 14 mg tar and 1.1 mg nicotine - 25 mm filter and ventilated - Blend contains 14% expanded tobacco.	7/74
Lower filler alkaloids (0.1%) correlating with a lower nicotine delivery.	11/75
Tar (12 to 10 mg), nicotine (0.9 to 0.8 mg), and CO (13 to 10 mg) deliveries were lowered as result of an increase in filter ventilation (16 to 25%). Filter ventilation increased by increasing number of ventilation holes from one row to two rows of mechanically perforated holes.	12/80
The tipping paper was changed from white to cork. The word "lights" on the tipping paper was removed and only the name Winston now appears on the cigarette.	12/81
Tar (9.4 to 8.4 mg) and CO (11.2 to 10.0 mg) decreased - increased ventilation (26 to 36%). Lower tobacco weight (0.736 to 0.715 g) and rod density (0.254 to 0.248 g/cc) observed.	9/82

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

WINSTON LIGHTS 85 (cont.)

Filter length increased (25 to 26 mm).	10/82
Test marketed pack containing 12 cigarettes per pack.	3/83
Filter (26 to 27 mm) and tipping paper (30 to 31 mm) lengths increased - rod density increased (0.244 to 0.249 g/cc) - Ventilation system changed from one row laser to one row mechanical perforation. Total and filter RTD increased.	9/83
Tar (9 to 11 mg), nicotine (0.7 to 0.9 mg) and CO (9 to 11 mg) increased - decreased ventilation (32 to 24%). Less porous paper (17 to 24 sec.) - ventilation changed from mechanical to electrostatic perforation.	1/84

WINSTON ULTRA 85

Test marketed - ultra low tar (3 mg) with a 25 mm CA filter and 60% filter ventilation - blend contains 25% expanded tobacco	10/80
Tar (3.4 to 4.6 mg), nicotine (0.39 to 0.46 mg), and CO (4.0 to 5.5 mg) increased - lower filter ventilation (59 to 55%) - lower filter RTD (4.5 to 3.8), tobacco weight (0.645 to 0.609 mg) and rod density (0.222 to 0.209 g/cc) - increase in expanded tobacco (23 to 34%).	2/81
Name changed to Winston Ultra Lights 85.	12/81

WINSTON ULTRA LIGHTS 85

Name changed from Winston Ultra 85. The tipping paper was changed from white to cork.	12/81
Tar (4.9 to 5.4 mg) and CO (4.4 to 6.3 mg) increased. A higher total and filter RTD were observed. Ventilation system changed from 2 to 1 row of mechanical perforation, lower ventilation noted (51 to 44%).	5/82
Tobacco weight (0.594 to 0.638 g) and rod density (0.206 to 0.220 g/cc) increased - decreased amount of expanded tobacco (30 to 20%).	8/82
Filter length increased (25 to 26 mm) - CO delivery increased (6.0 to 7.6 mg) due to change to less porous paper (17 to 23 sec.) - paper component increased (0.8 to 1.6%).	3/83
Filter length (26 to 27 mm) increased rod density decreased (0.216 to 0.211 g/cc).	9/83
Tipping paper length decreased (32 to 31 mm).	1/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

WINSTON 100

Test marketed - 100 mm long - 20 mm CA filter.	1/67
Tar (6 mg) and nicotine (0.3 mg) reduced by increase in filter length (20 to 25 mm) and tipping paper (24 to 30 mm).	12/67
Tar (1 mg) and nicotine (0.1 mg) increased by a blend change.	4/68
Expanded tobacco (6%) noted in blend of some cigarettes.	12/69
Tar (1 mg) and nicotine (0.1 mg) decreased by addition of expanded tobacco (7%) - Tobacco weight lower.	3/70
The amount of expanded tobacco increased (7 to 11%). A lower tobacco weight and rod density were noted.	3/71
Filter length (25 to 27 mm) and tipping paper length (30 to 31 mm) increased. Lower tar (1 mg) and nicotine (0.1 mg) observed.	9/73
Lower filler alkaloids (0.1%) correlating with a lower nicotine delivery.	11/75
Cigarette length (99.4 to 99.0 mm) decreased.	2/76
Cigarette length increased corresponding to 0.4 mm increase in filter length.	11/77
Pack color changed from gold to red.	1/82
Tar (14.1 to 16.4 mg), nicotine (1.02 to 1.25 mg) and CO (15.8 to 16.6 mg) increased - change to a less porous paper (17 to 25 sec.). Increased paper component (0.8 to 1.2%).	9/82
Test marketed pack containing 12 cigarettes per pack.	3/83
Tipping paper length increased (31 to 32 mm) - no changes in smoke deliveries.	7/84
Tar increased (16.0 to 17.4 mg) - ventilation decreased (17 to 10%) - lower nicotine (1.22 to 1.13 mg) and alkaloids (1.94 to 1.57%) - lower paper component (1.4 to 0.4%).	3/85

WINSTON LIGHTS 100

Introduced - 14 mg tar and 1.1 mg nicotine - High efficiency 27 mm CA filter with 15% ventilation - cork tipping paper.	3/77
Cigarette length increased corresponding to 0.4 mm increase in filter length.	11/77

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E. REYNOLDS TOBACCO COMPANY (continued)

WINSTON LIGHTS 100 (continued)

Lower tar (13 to 12 mg) correlating with a more efficient filter.	5/79
Test marketed pack containing 12 cigarettes per pack.	3/83
Tar (12.1 to 11.1 mg) and nicotine (0.94 to 0.86 mg) decreased - increase in filter length (27 to 31 mm), filter weight (0.16 to 0.19 mg), and tipping paper length (34 to 35 mm).	5/84
Lower CO delivery (15 to 12 mg) correlated with increased ventilation (17 to 30%) and decreased efficiency (61 to 56%) - lower total RTD and filter RTD were noted.	5/85

WINSTON ULTRA 100

Test marketed - ultra low delivery (4 mg) - 28 mm CA filter with 52% filter ventilation - blend contains 25% expanded tobacco.	10/80
Name changed to Winston Ultra Lights 100.	12/81

WINSTON ULTRA LIGHTS 100

Name changed from Winston Ultra 100. The tipping paper was changed from white to cork.	12/81
Expanded tobacco amount decreased (29 to 21%) - increased filter weight (0.18 to 0.20 g) resulted in increased filter RTD (124 to 140 mm H_2O).	9/82
Filter length (27 to 31 mm), filter weight (0.20 to 0.22 g) and tipping paper length increased (34 to 35 mm) - tobacco weight decreased (0.770 to 0.723 g).	5/84

WINSTON MENTHOL 100

Test marketed - 100 mm long - 20 mm CA filter.	1/67
Tar (4 mg) and nicotine (0.2 mg) reduced by increase in filter length (20 to 25 mm) and tipping paper (24 to 30 mm).	12/67

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

E. REYNOLDS TOBACCO COMPANY (continued)

WINSTON MENTHOL 100 (continued)

Tar (2 mg) decreased by addition of expanded tobacco (6%) - Tobacco weight lower.	10/70
Filter length (25 to 27 mm) and tipping paper length (30 to 31 mm) increased - No change in smoke deliveries.	1/73
New silver package - High menthol in smoke, filler, and filter.	8/74
Lower filler alkaloids (0.1%) correlating with a lower nicotine delivery.	11/75
Cigarette length increased corresponding to 0.4 mm increase in filter length.	11/77

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F. GENERIC BRANDS

"1776" 85

Distributed by Park Avenue Tobacco Co. - manufactured by U.S. Tobacco Co. - sold only on military installations. 5/85

"1776" MENTHOL 85

Distributed by Park Avenue Tobacco Co. - manufactured by U.S. Tobacco Co. - sold only on military installations. 5/85

BASICS 85

Distributed by Grand Union Co. - manufactured by Liggett Group. 7/84

BASICS MENTHOL 85

Distributed by Grand Union Co. - manufactured by Liggett Group. 7/84

BASICS 100

Distributed by Grand Union Co. - manufactured by Liggett Group. 7/84

BRANDED ULTRA LIGHTS 85

Manufactured and sold by Brown & Williamson. 11/84

BRANDED ULTRA LIGHTS 100

Manufactured and sold by Brown & Williamson. 11/84

BRANDED FILTER LIGHTS 85

Manufactured and sold by Brown & Williamson. 11/84

BRANDED FILTER LIGHTS MENTHOL 85

Manufactured and sold by Brown & Williamson. 11/84

BRANDED FILTER LIGHTS 100

Manufactured and sold by Brown & Williamson. 11/84

BRANDED FILTER LIGHTS MENTHOL 100

Manufactured and sold by Brown & Williamson. 11/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000

F. GENERIC BRANDS (continued)

BRANDED FULL FLAVOR 85

Manufactured and sold by Brown & Williamson. 11/84

BRANDED FULL FLAVOR 100

Manufactured and sold by Brown & Williamson. 11/84

BRONSON LIGHTS 100

Distributed by National Product Group - manufactured by Liggett Group. 3/84

BRONSON ULTRA LIGHT 100

Distributed by National Product Group - manufactured by Liggett Group. 3/84

COINS 85

Distributed by NVBG, Inc. - manufactured by Brown & Williamson - sold only in vending machines. 3/85

COINS LIGHTS 85

Distributed by NVBG, Inc. - manufactured by Brown & Williamson - sold only in vending machines. 3/85

COST CUTTER LIGHTS 85

Distributed by The Kroger Company - manufactured by Liggett Group. 4/81

COST CUTTER LIGHTS 100

Distributed by The Kroger Company - manufactured by Liggett Group. 6/82

COST CUTTER LIGHTS MENTHOL 85

Distributed by The Kroger Company - manufactured by Liggett Group. 6/82

ECON MENTHOL 85

Distributed by Richfood, Inc. - manufactured by U.S. Tobacco Company. 10/81

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F. GENERIC BRANDS

EPIC DELUXE LIGHTS 85

Distributed by Southland Corp. - manufactured by Liggett Group. 11/83

EPIC DELUXE LIGHTS MENTHOL 85

Distributed by Southland Corp. - manufactured by Liggett Group. 11/83

FILTER ULTRA LIGHTS 85

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 3/83

FILTER ULTRA LIGHTS 100

Distributed by Gary Tobacco Co. - manufactured by Liggett Group. 3/83

FLAVOR LIGHTS 85

Distributed by Gary Tobacco Company - manufactured by Liggett Group. 7/81

FULL FLAVOR QUALITY 85

Distributed by Gary Tobacco Company - manufactured by Liggett Group. 9/84

FULL FLAVOR QUALITY 100

Distributed by Gary Tobacco Company - manufactured by Liggett Group. 9/84

GPC LIGHTS 85

Distributed by Generic Products Corporation - manufactured by Liggett Group. 3/83

GPC LIGHTS MENTHOL 85

Distributed by Generic Products Corporation - manufactured by Liggett Group. 3/83

GPC LIGHTS 100

Distributed by Generic Products Corporation - manufactured by Liggett Group. 3/83

GPC FULL FLAVOR 85

Distributed by Generic Products Corporation - manufactured by Liggett Group. 7/84

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Source: https://www.industrydocuments.ucsf.edu/docs/pxgl0000